Full wwPDB X-ray Structure Validation Report ⓘ

Mar 15, 2026 – 03:09 AM UTC

PDB ID	:	4V40 / pdb_00004v40
Title	:	BETA-GALACTOSIDASE
Authors	:	Jacobson, R.H.; Zhang, X.; Dubose, R.F.; Matthews, B.W.
Deposited on	:	1994-07-18
Resolution	:	2.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

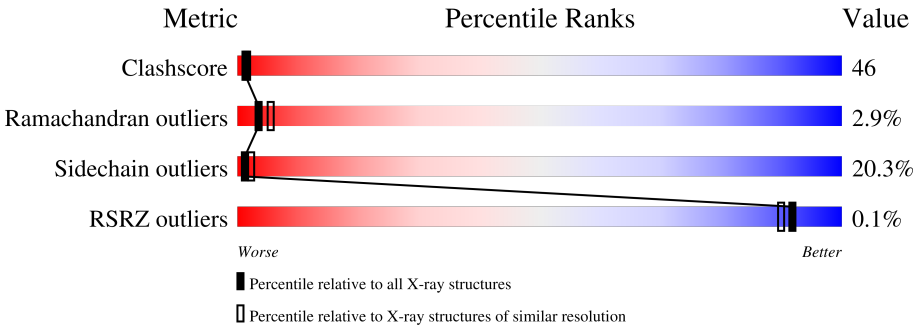
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1023	36% 47% 14% .
1	B	1023	36% 47% 15% .
1	C	1023	42% 42% 14% .
1	D	1023	36% 46% 16% .
1	E	1023	24% 49% 23% .
1	F	1023	34% 46% 17% .
1	G	1023	32% 48% 17% .

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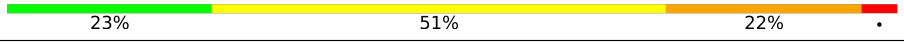
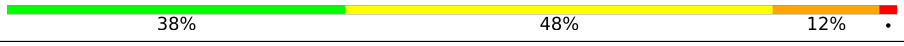
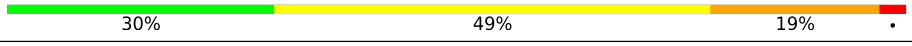
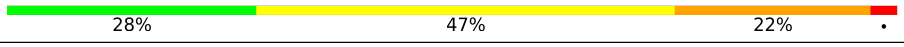
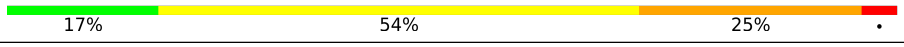
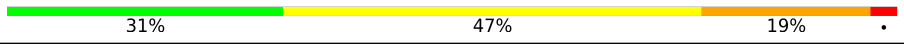
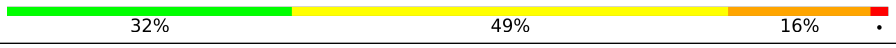
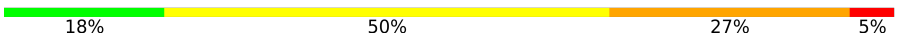
Mol	Chain	Length	Quality of chain
1	H	1023	
1	I	1023	
1	J	1023	
1	K	1023	
1	L	1023	
1	M	1023	
1	N	1023	
1	O	1023	
1	P	1023	

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 132654 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called BETA-GALACTOSIDASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	B	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	C	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	D	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	E	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	F	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	G	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	H	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	I	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	J	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	K	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	L	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	M	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	N	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	O	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			
1	P	1021	Total	C	N	O	S	0	0	0
			8198	5185	1451	1524	38			

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Mg 2 2	0	0
2	B	2	Total Mg 2 2	0	0
2	C	2	Total Mg 2 2	0	0
2	D	2	Total Mg 2 2	0	0
2	E	2	Total Mg 2 2	0	0
2	F	2	Total Mg 2 2	0	0
2	G	2	Total Mg 2 2	0	0
2	H	2	Total Mg 2 2	0	0
2	I	2	Total Mg 2 2	0	0
2	J	2	Total Mg 2 2	0	0
2	K	2	Total Mg 2 2	0	0
2	L	2	Total Mg 2 2	0	0
2	M	1	Total Mg 1 1	0	0
2	N	2	Total Mg 2 2	0	0
2	O	2	Total Mg 2 2	0	0
2	P	2	Total Mg 2 2	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	88	Total O 88 88	0	0
3	B	96	Total O 96 96	0	0
3	C	91	Total O 91 91	0	0

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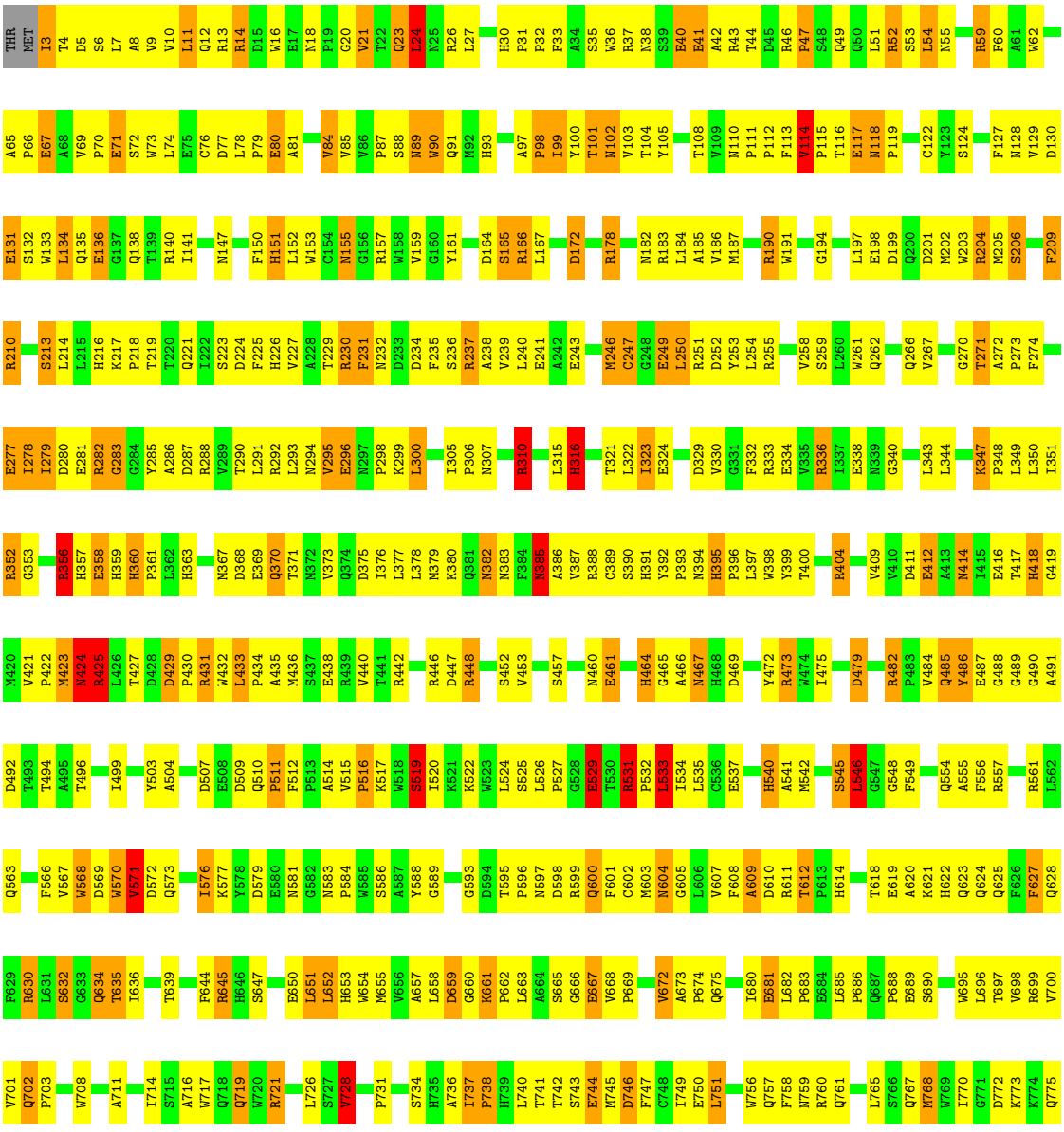
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	D	97	Total O 97 97	0	0
3	E	94	Total O 94 94	0	0
3	F	91	Total O 91 91	0	0
3	G	95	Total O 95 95	0	0
3	H	92	Total O 92 92	0	0
3	I	90	Total O 90 90	0	0
3	J	97	Total O 97 97	0	0
3	K	87	Total O 87 87	0	0
3	L	84	Total O 84 84	0	0
3	M	79	Total O 79 79	0	0
3	N	94	Total O 94 94	0	0
3	O	95	Total O 95 95	0	0
3	P	85	Total O 85 85	0	0

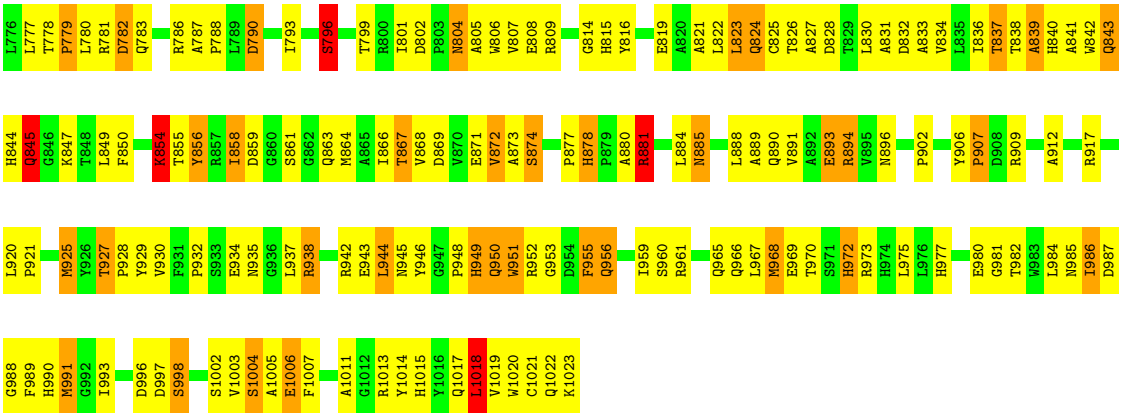
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: BETA-GALACTOSIDASE

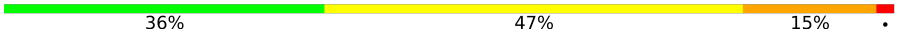
Chain A:

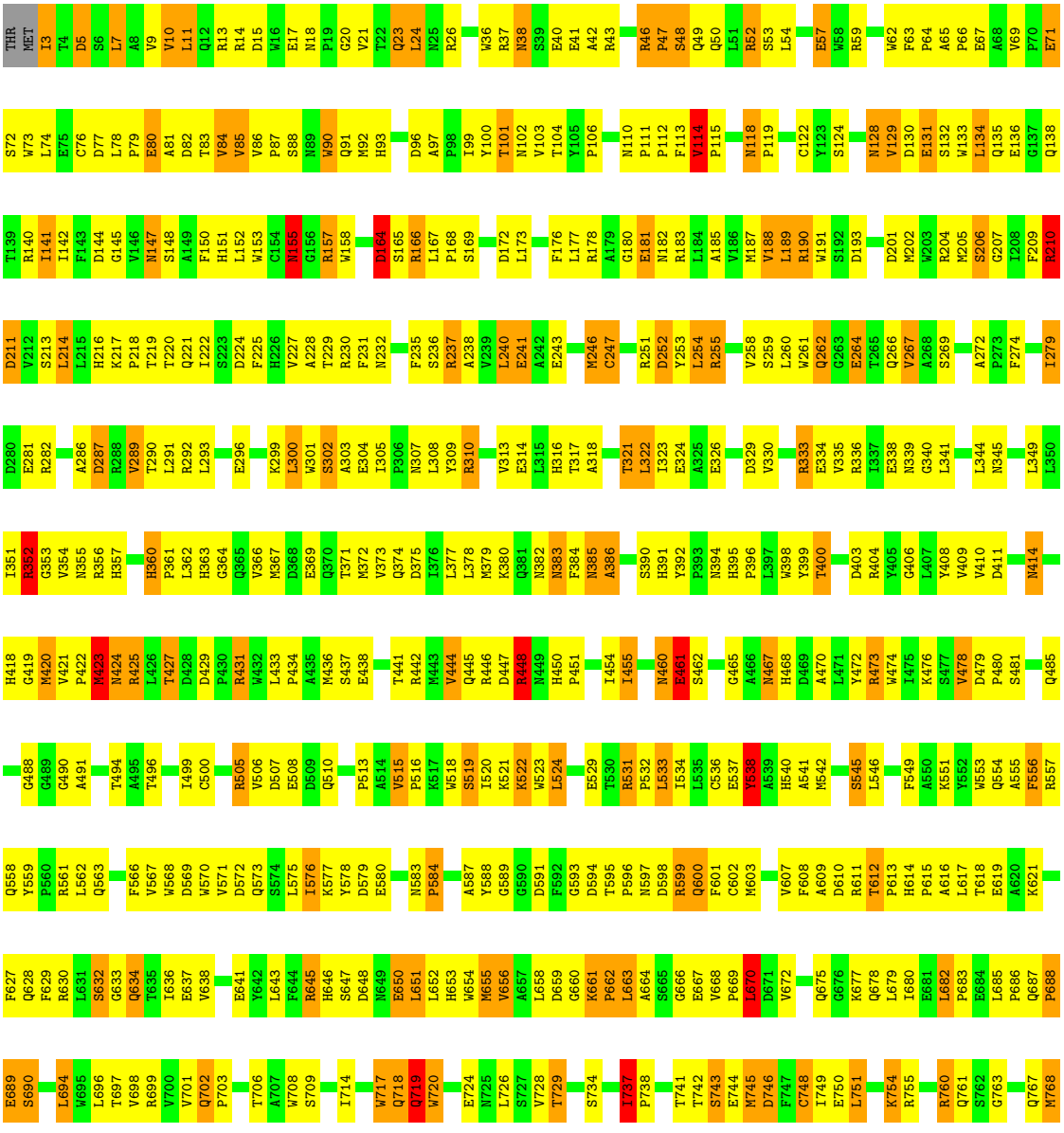


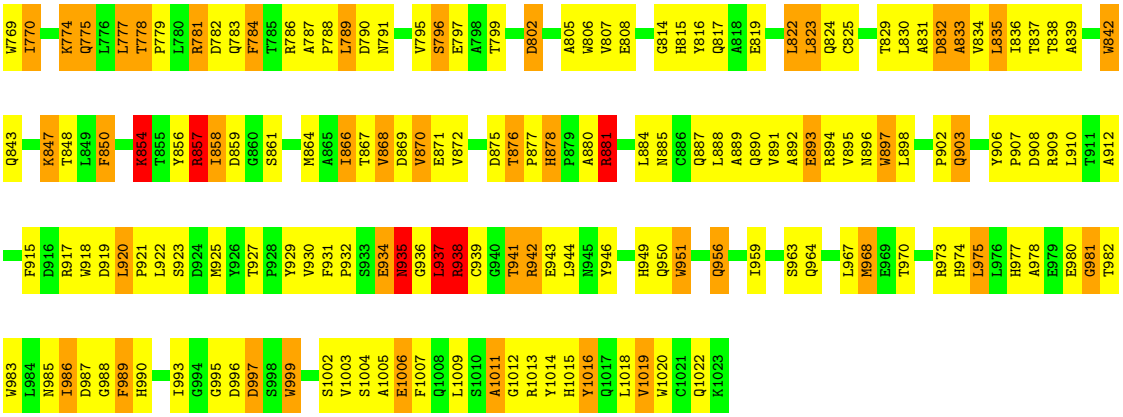


• Molecule 1: BETA-GALACTOSIDASE

Chain B:

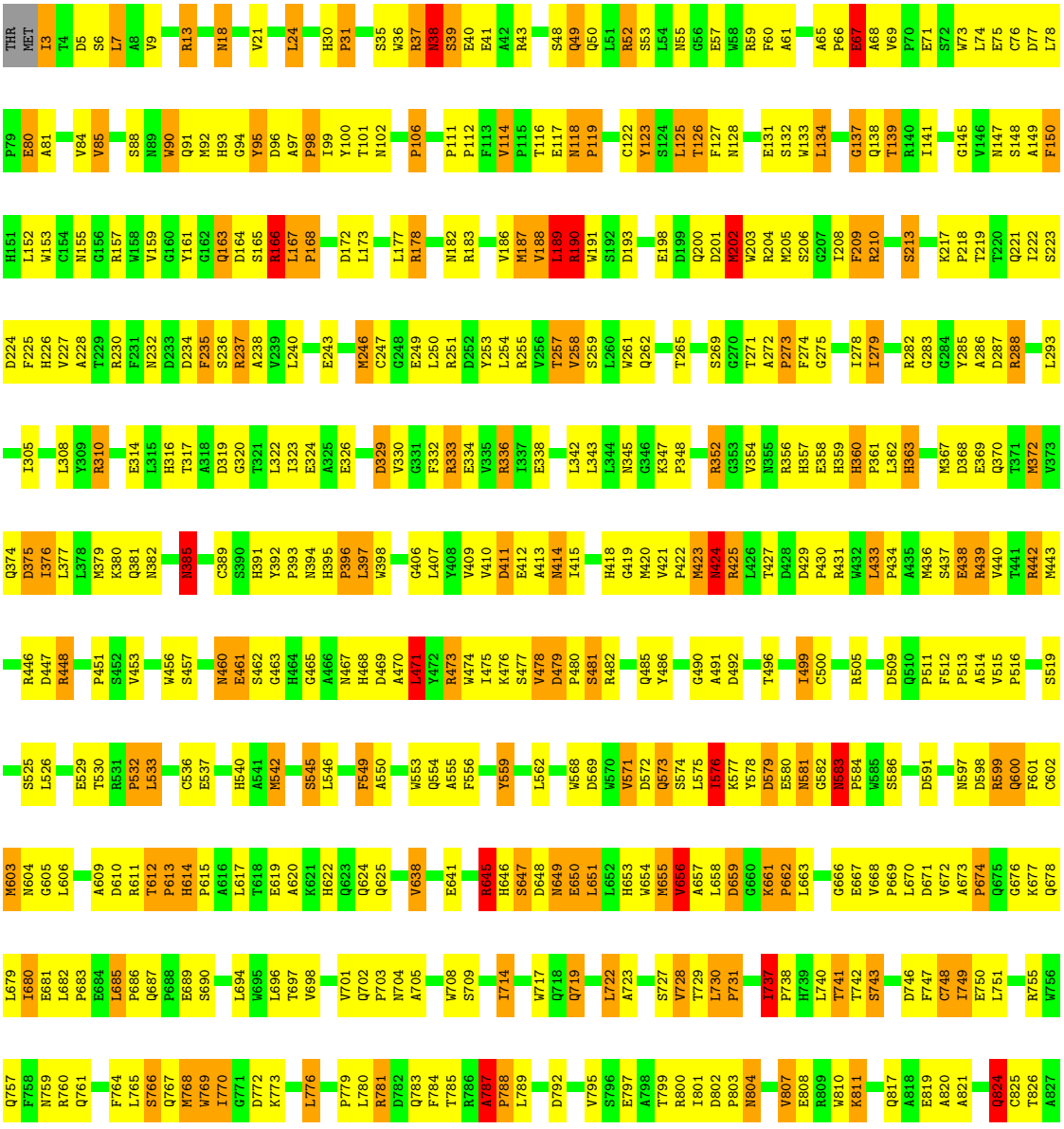


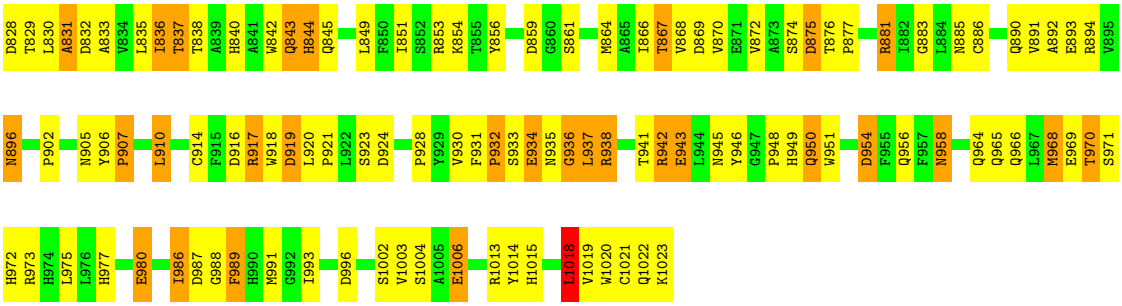




• Molecule 1: BETA-GALACTOSIDASE

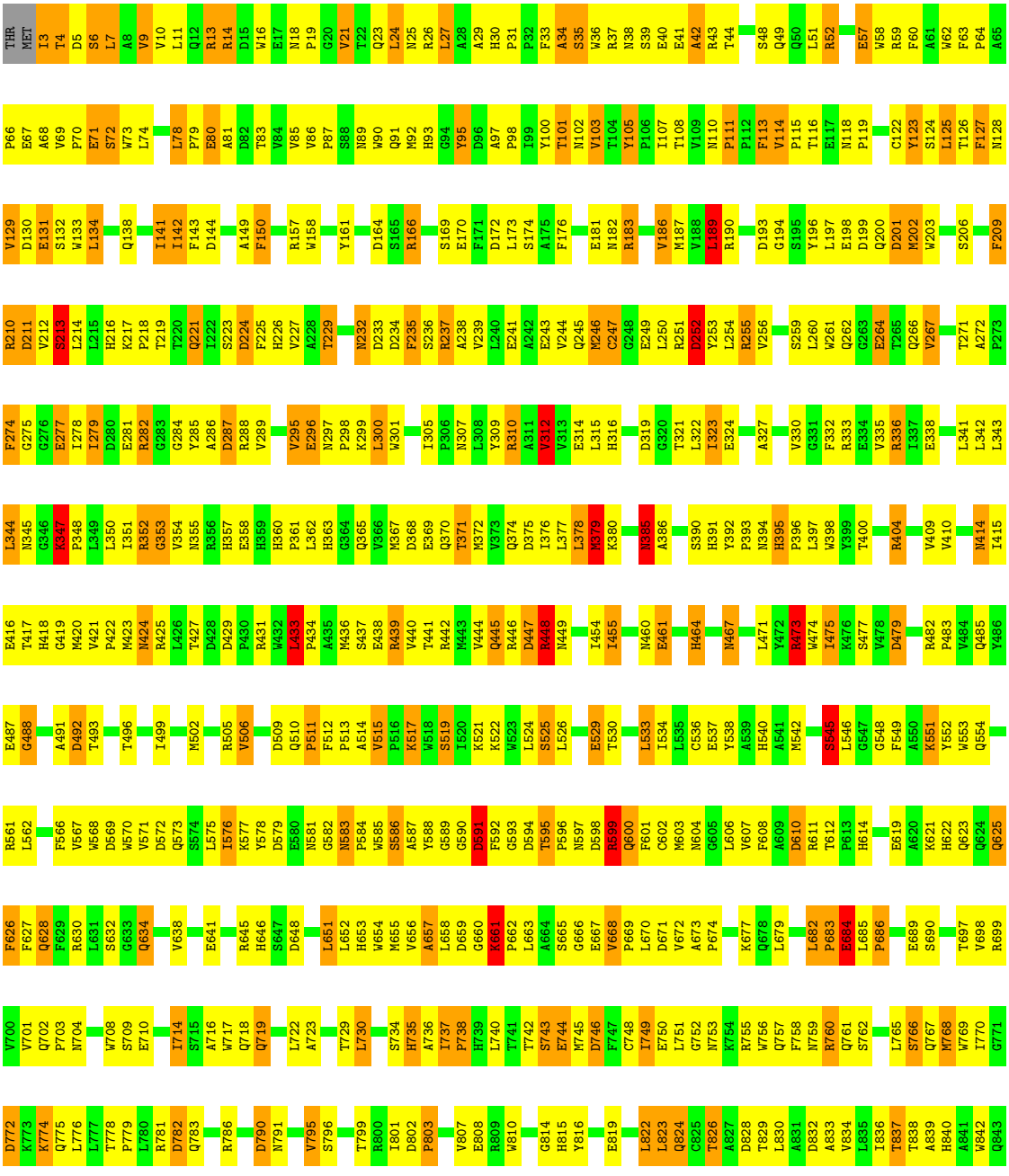
Chain C:

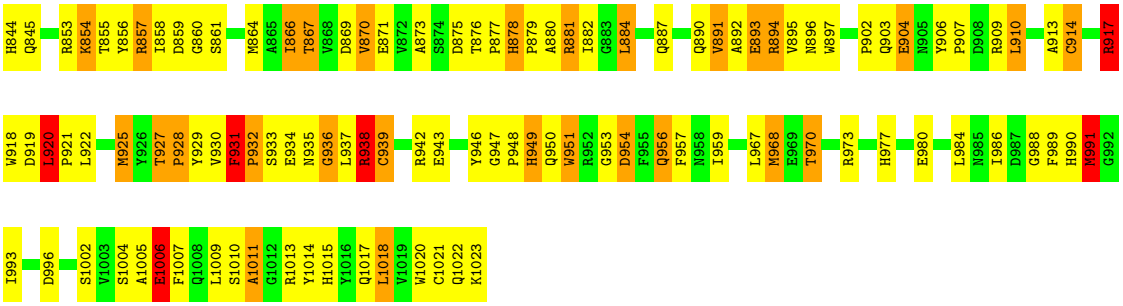




• Molecule 1: BETA-GALACTOSIDASE

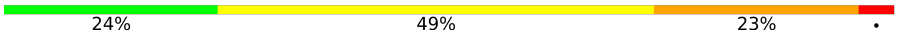
Chain D:

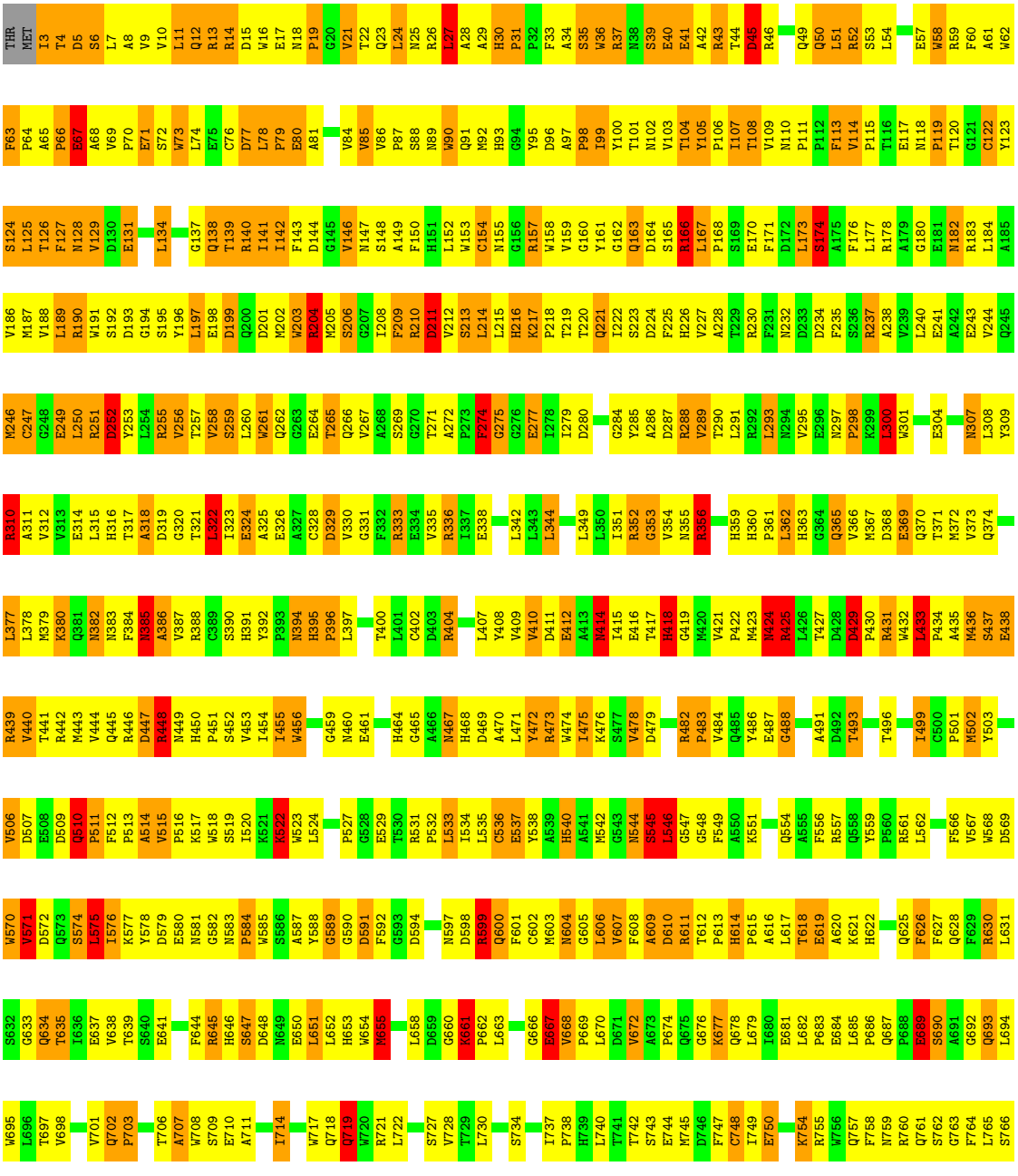


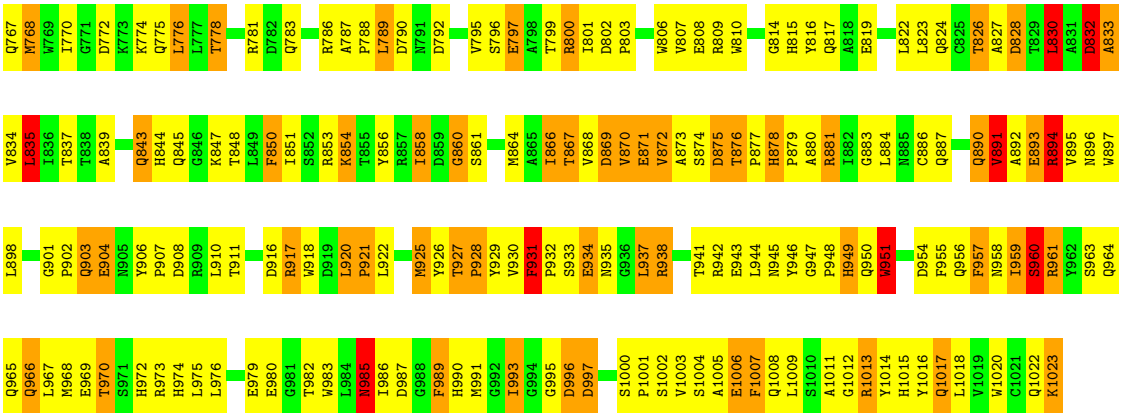


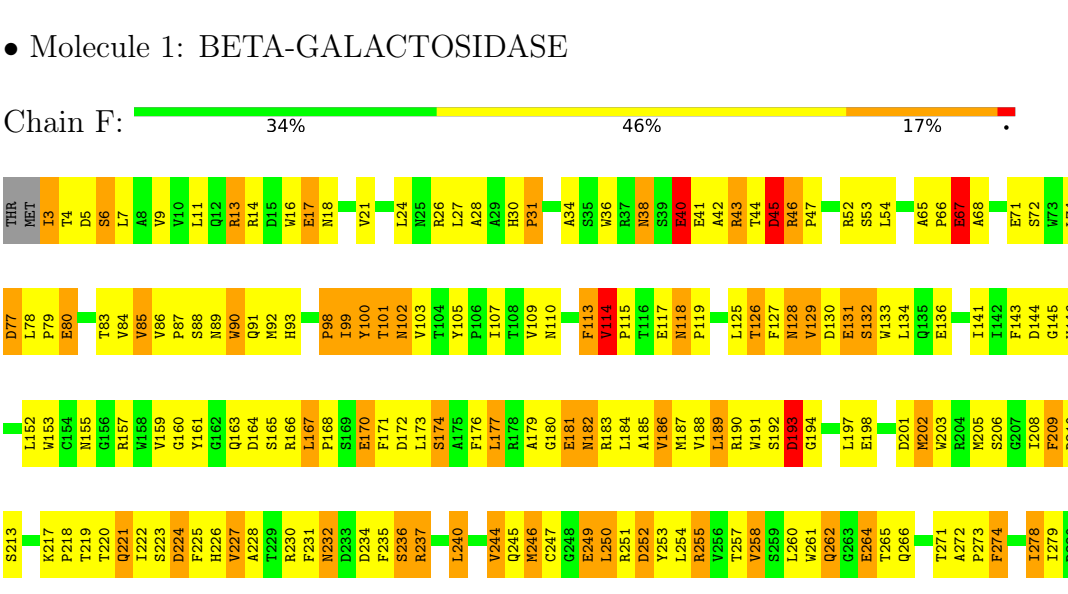
• Molecule 1: BETA-GALACTOSIDASE

Chain E:



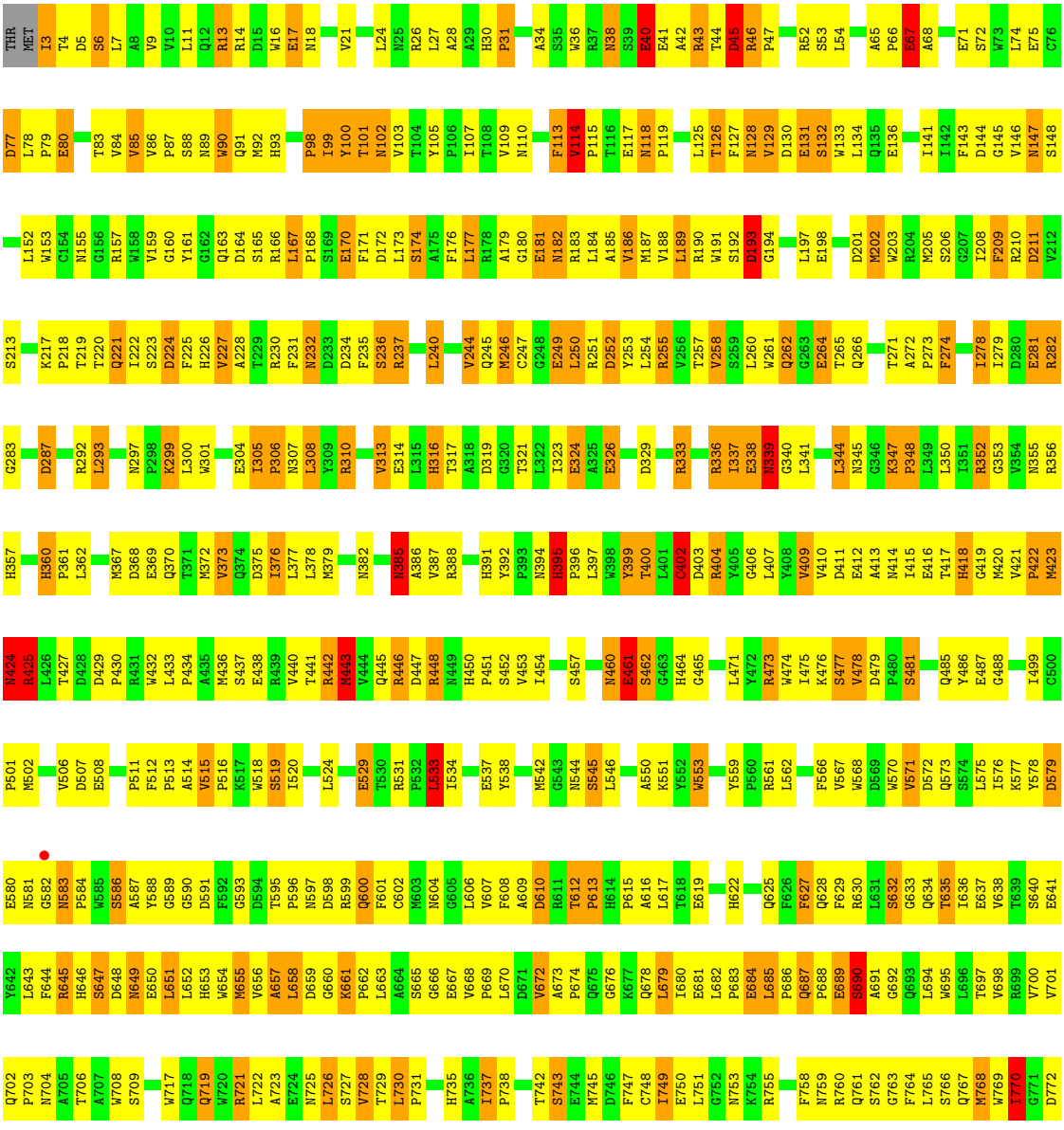


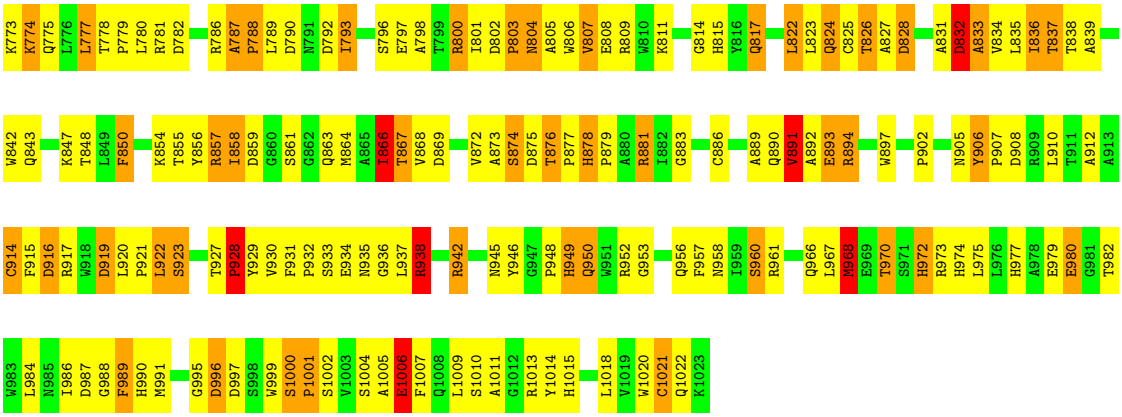




• Molecule 1: BETA-GALACTOSIDASE

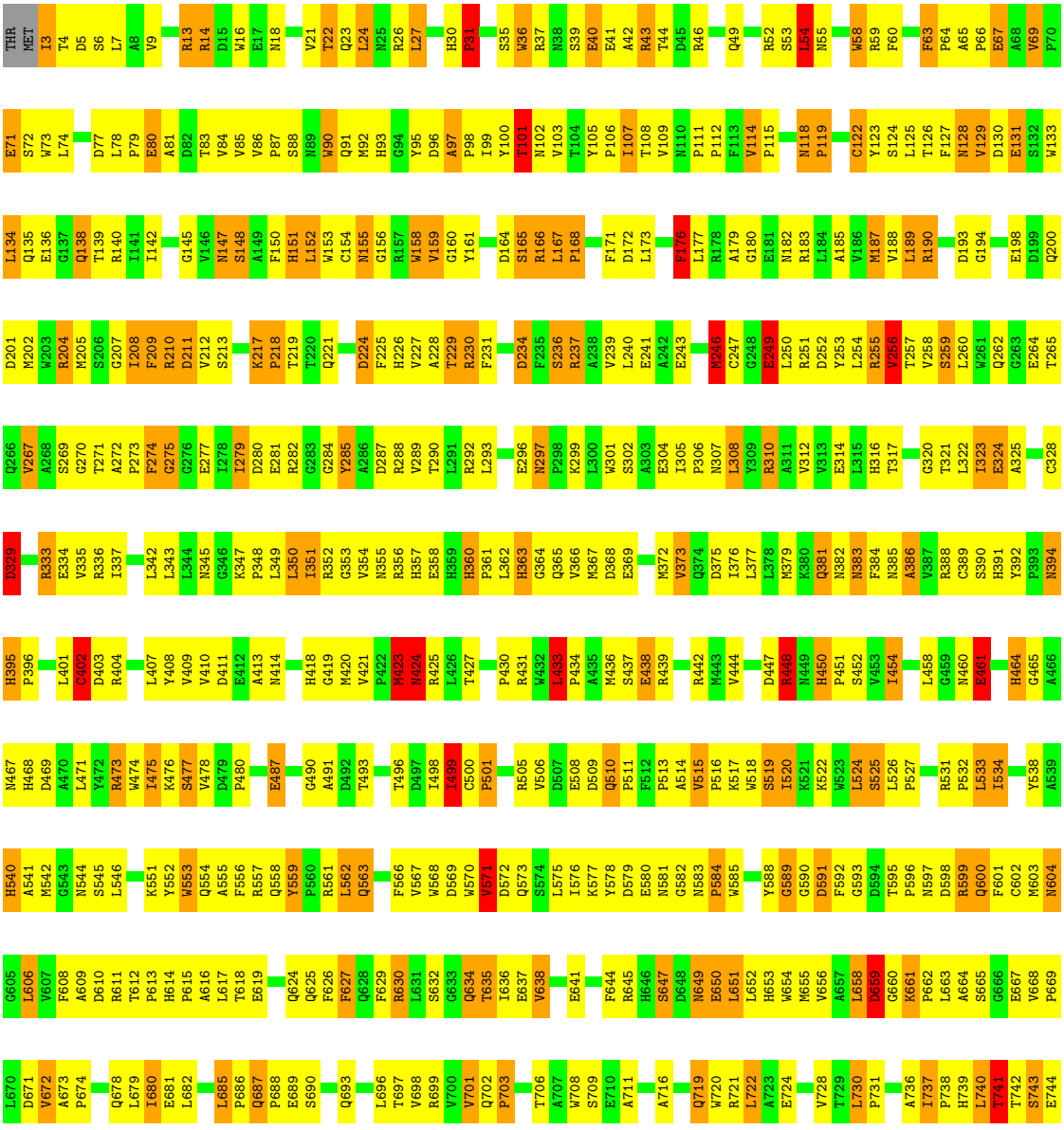
Chain F:

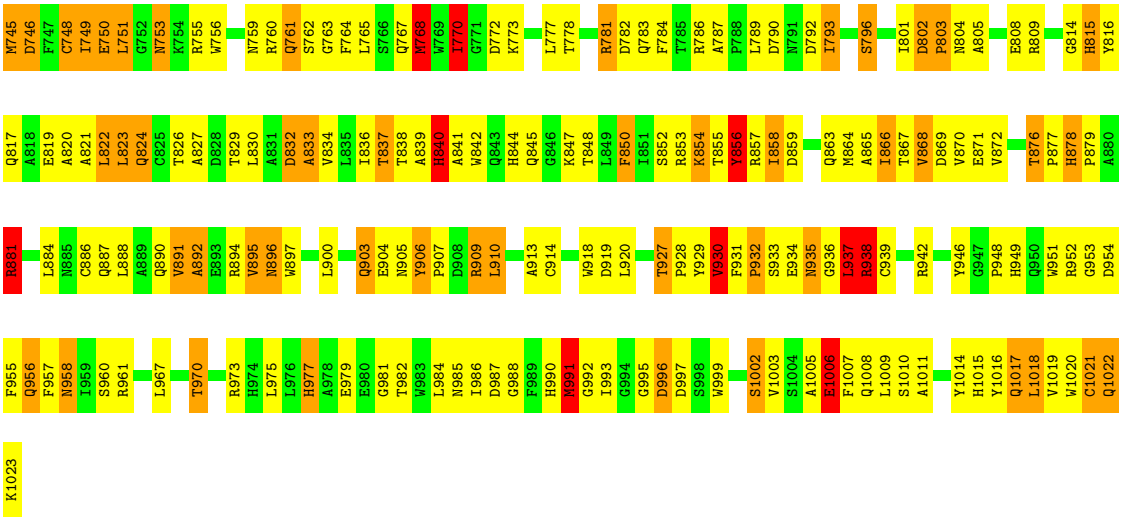


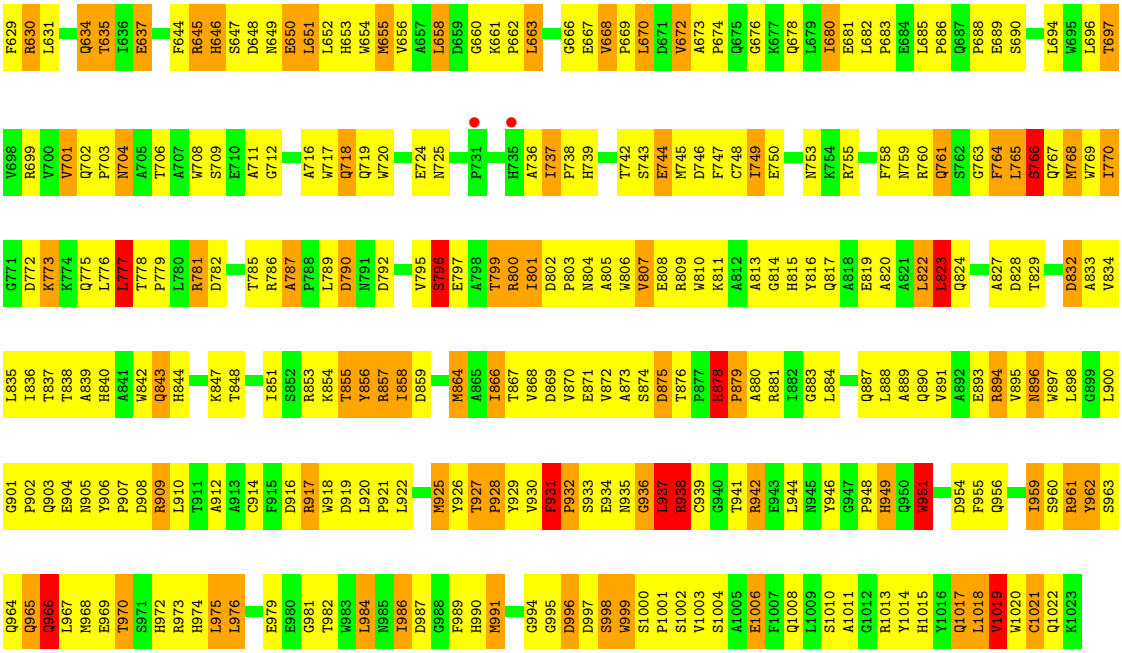


• Molecule 1: BETA-GALACTOSIDASE

Chain G:

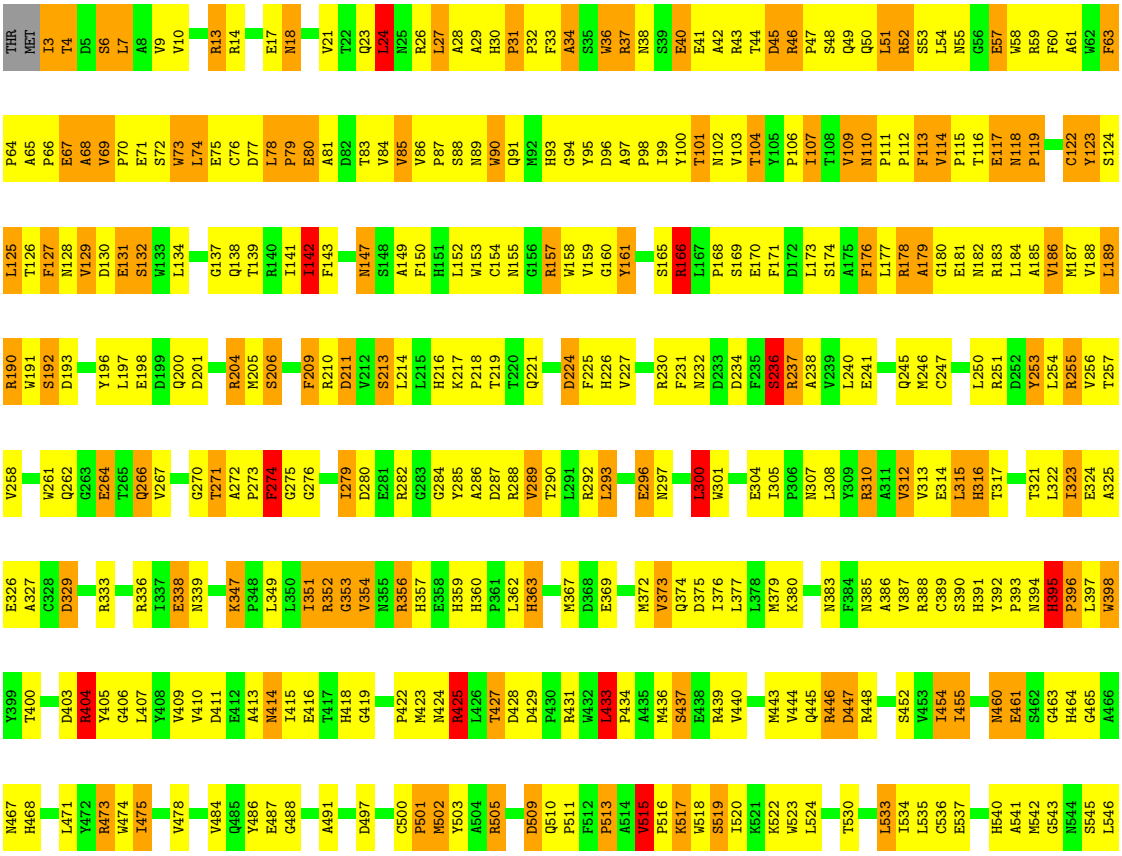


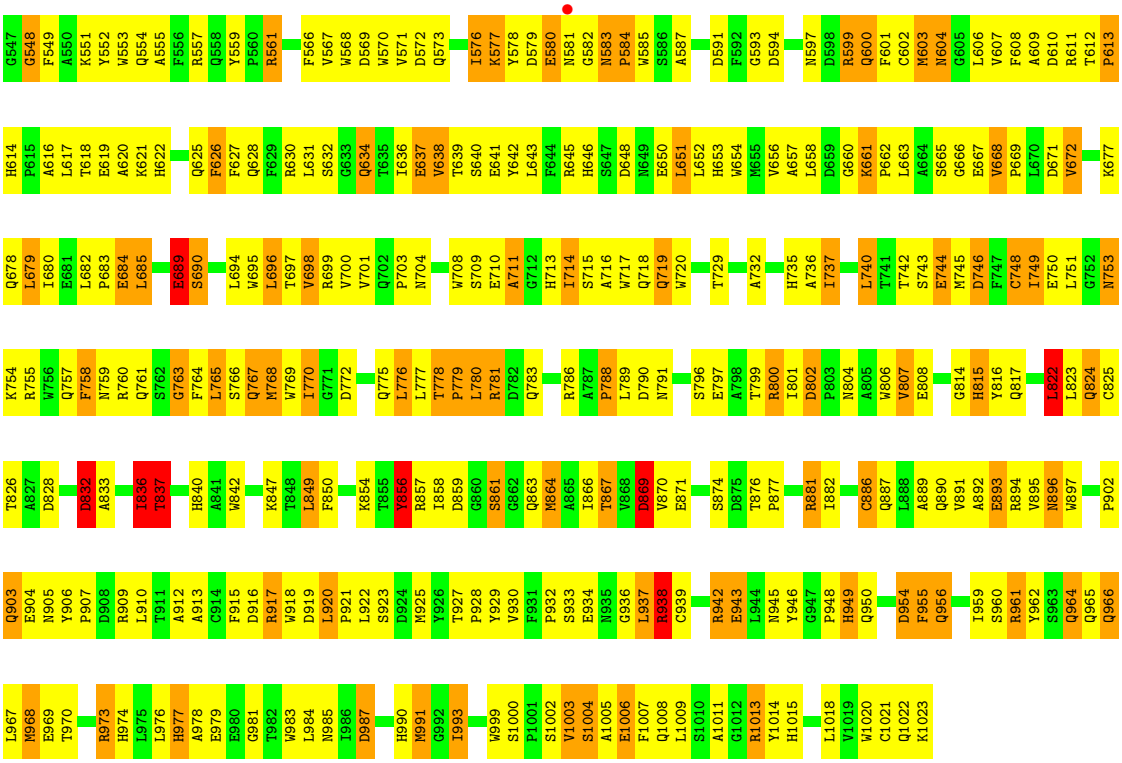




• Molecule 1: BETA-GALACTOSIDASE

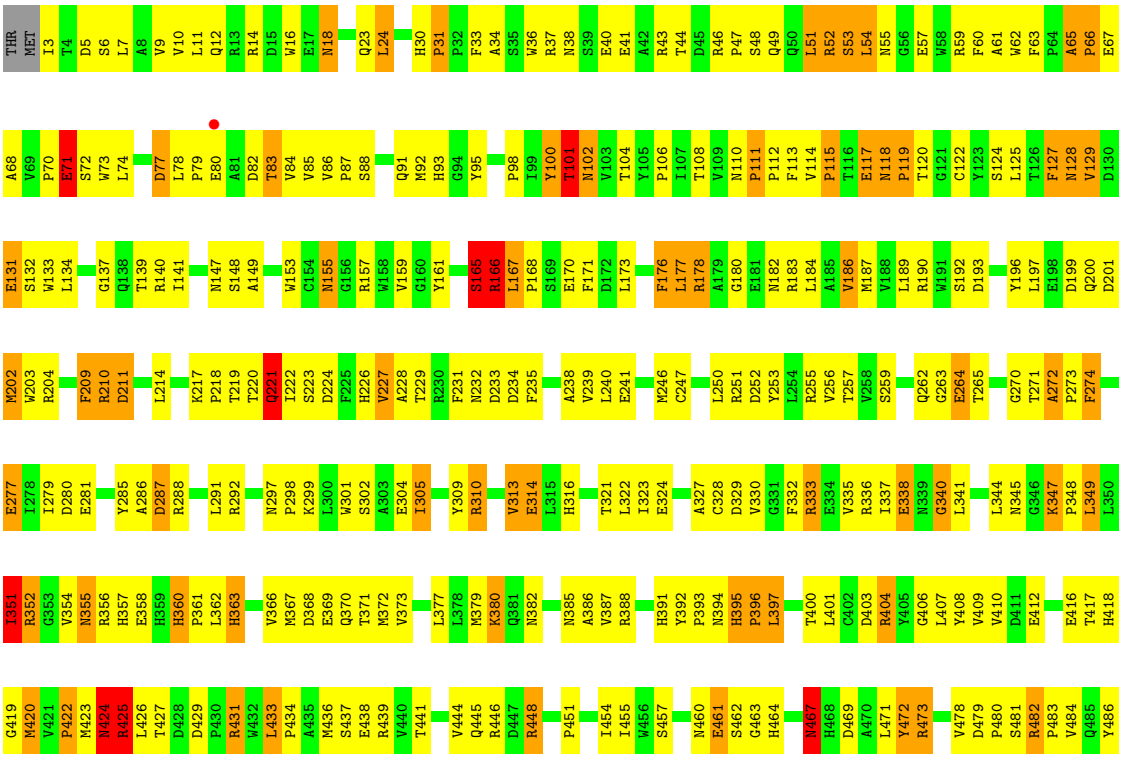
Chain I:

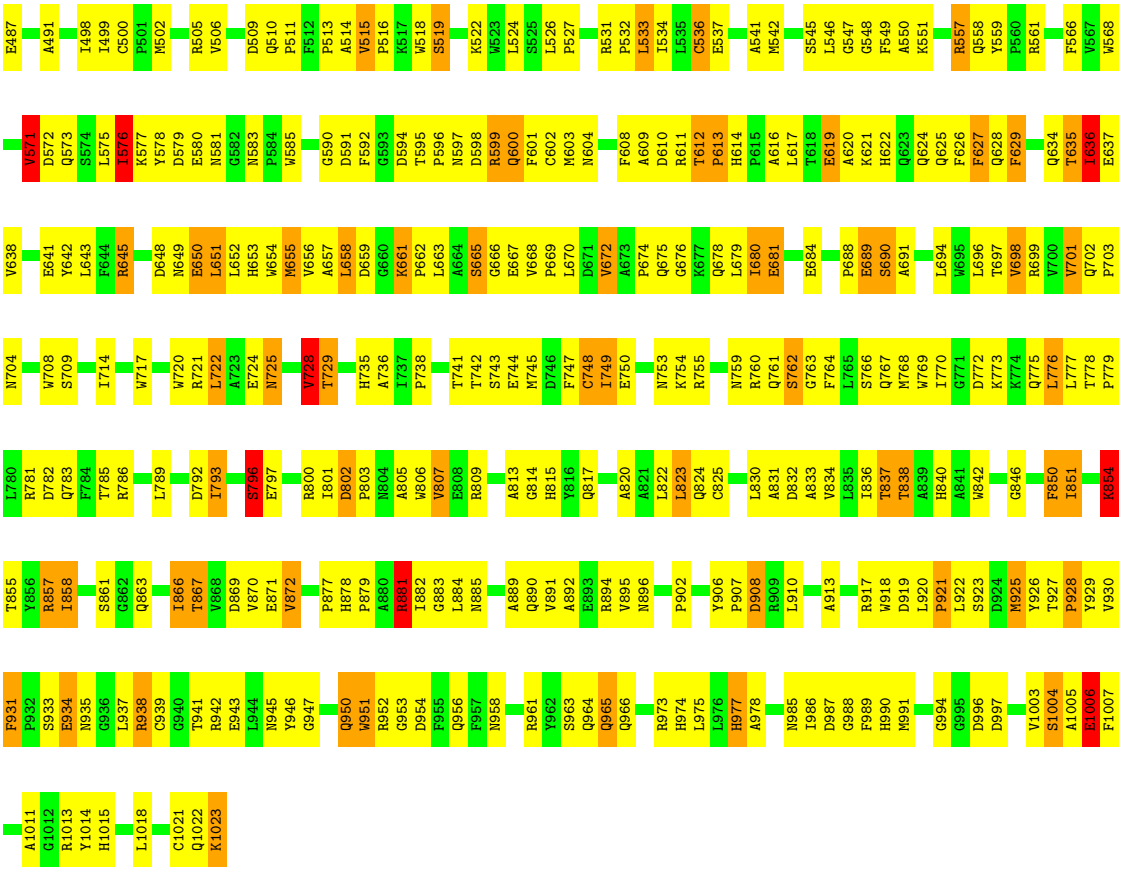




• Molecule 1: BETA-GALACTOSIDASE

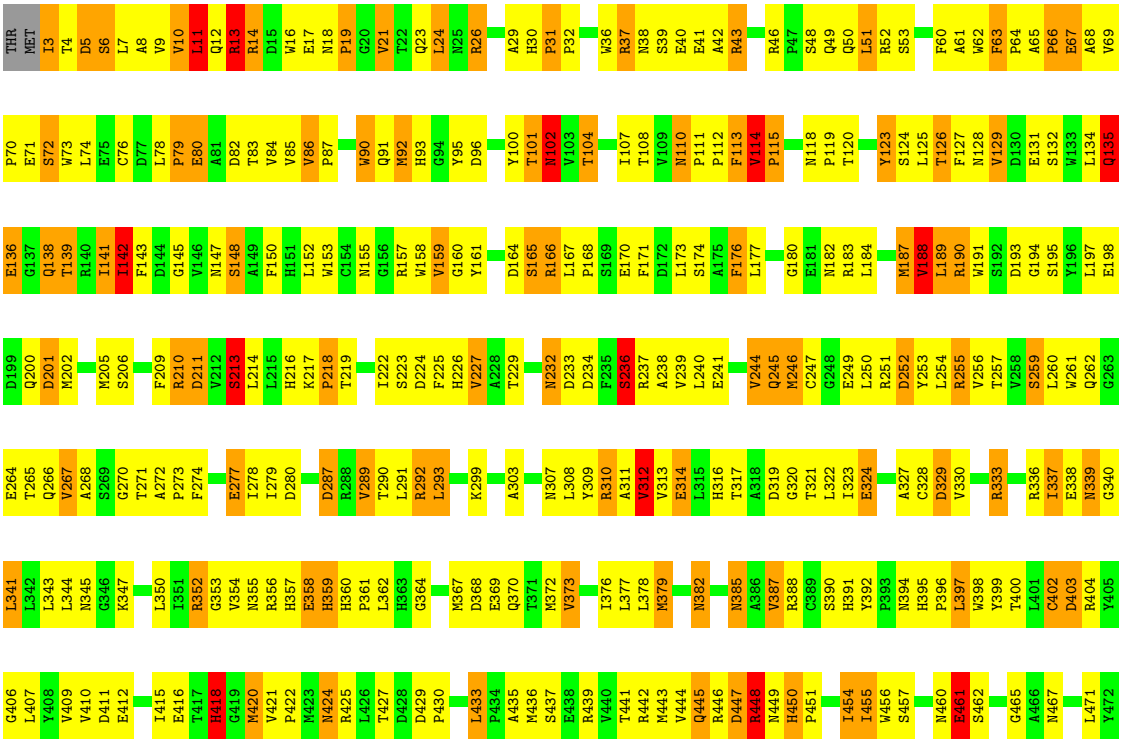
Chain J:

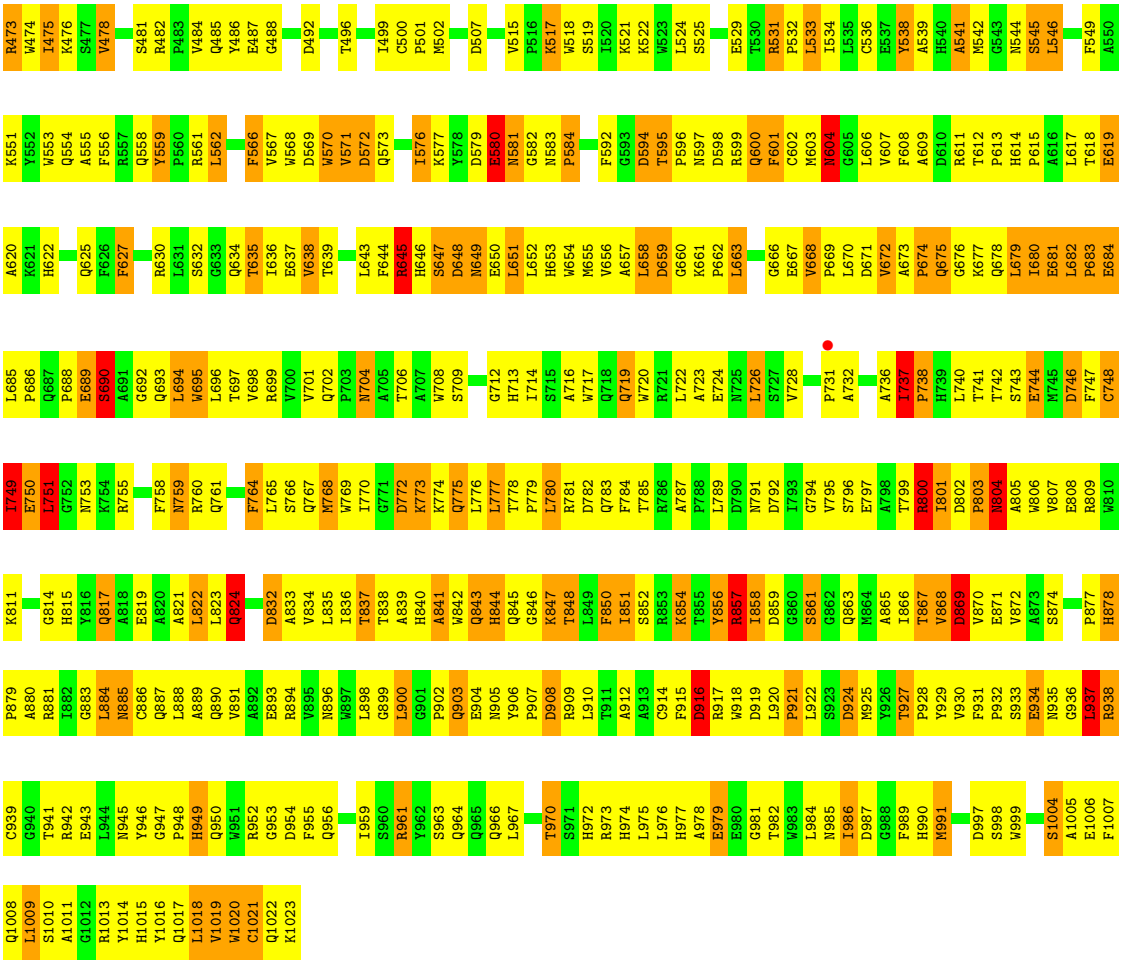




• Molecule 1: BETA-GALACTOSIDASE

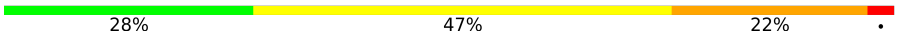
Chain K:

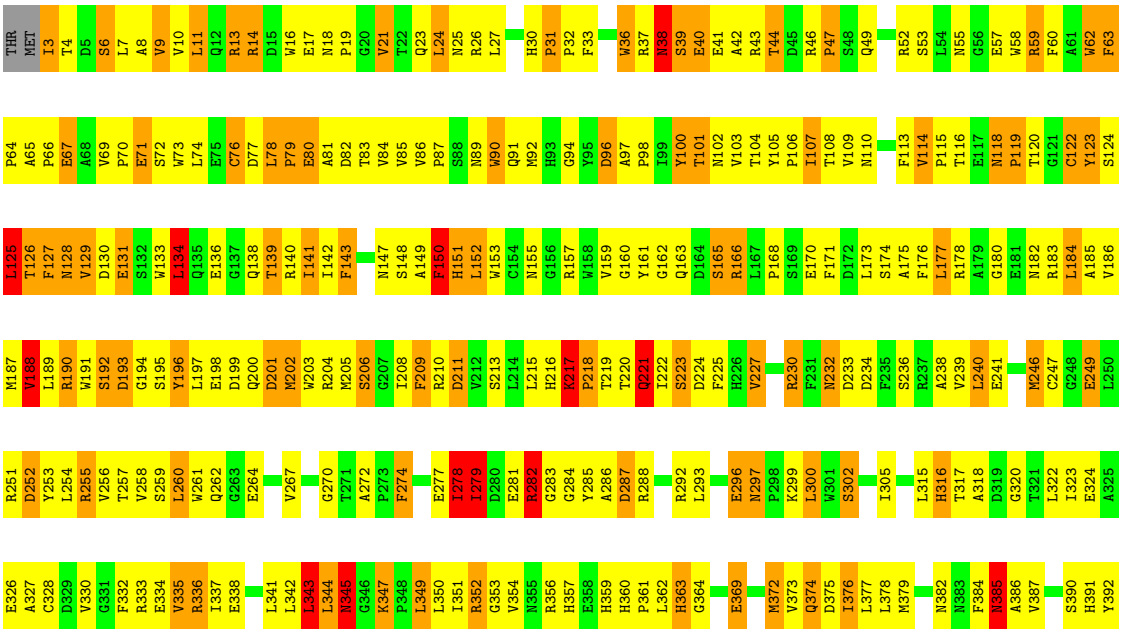


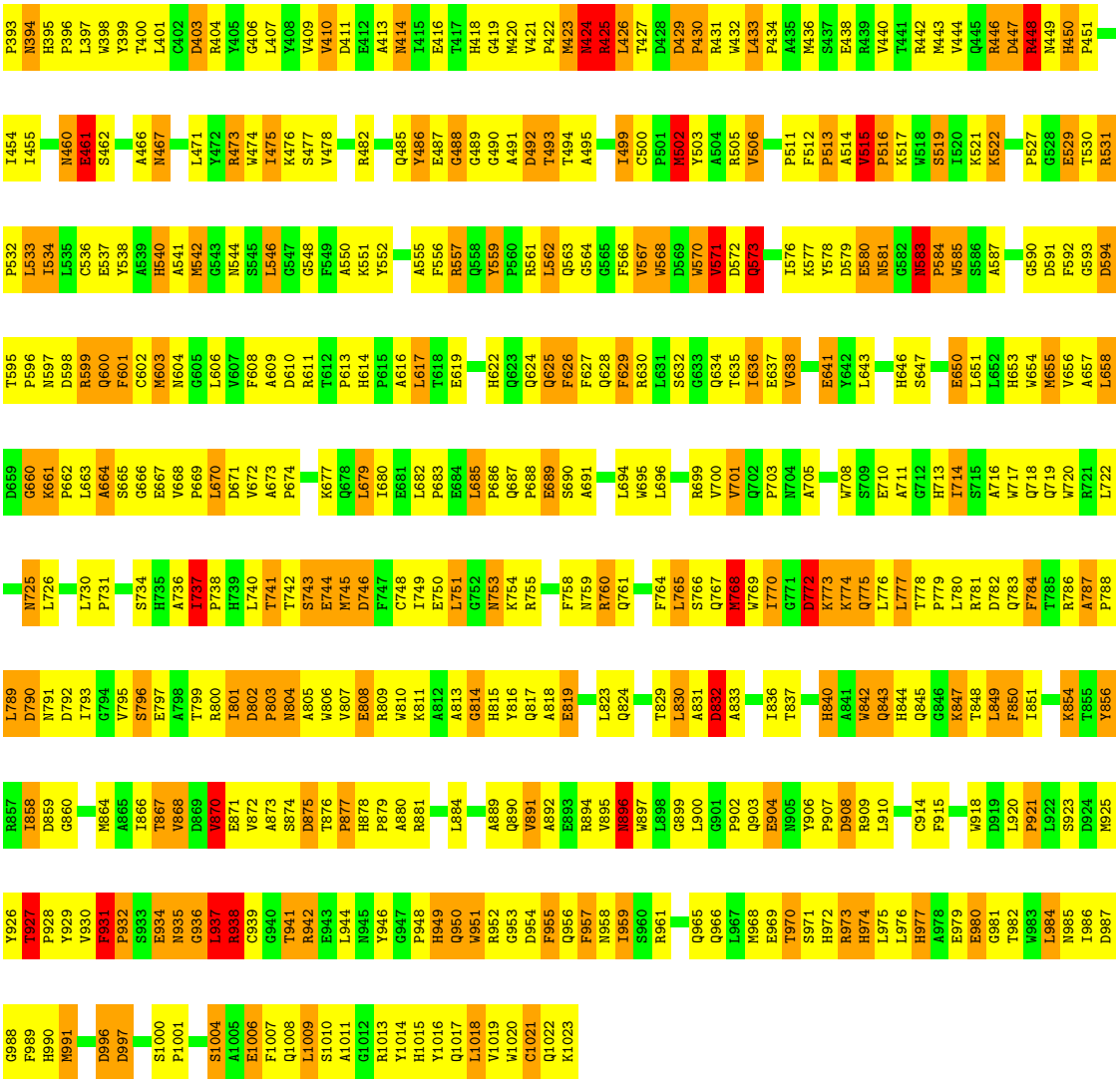


• Molecule 1: BETA-GALACTOSIDASE

Chain L:

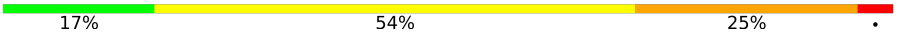


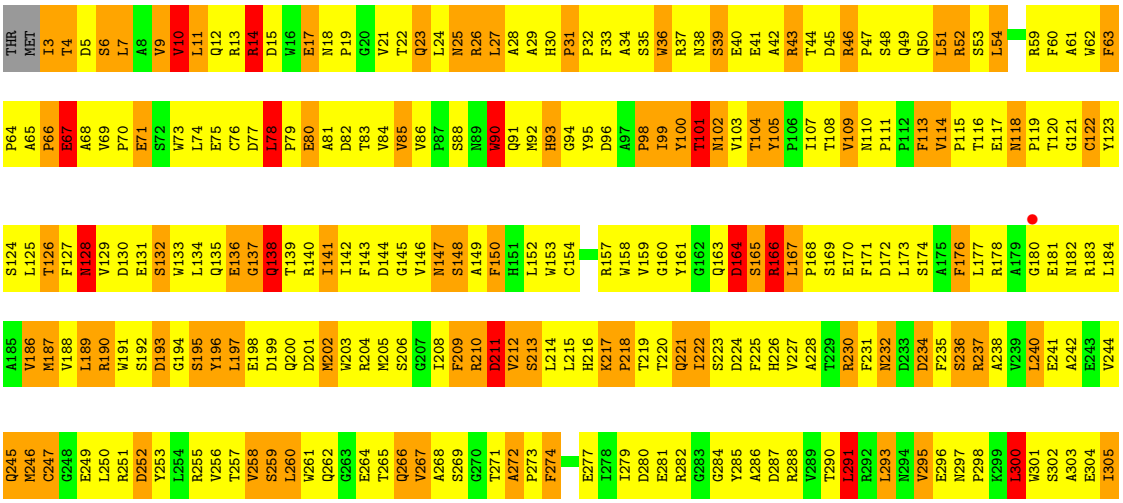


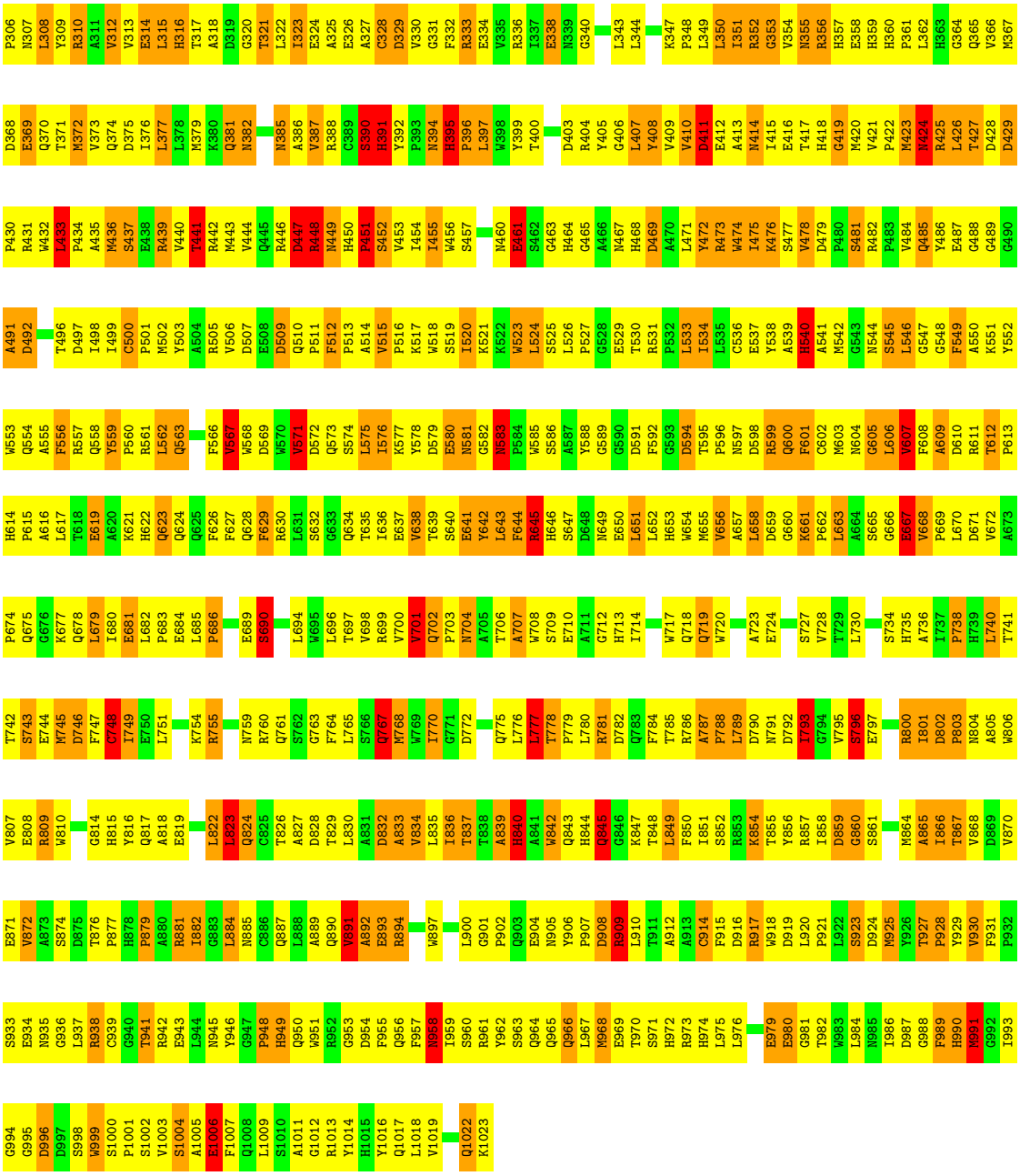


• Molecule 1: BETA-GALACTOSIDASE

Chain M:

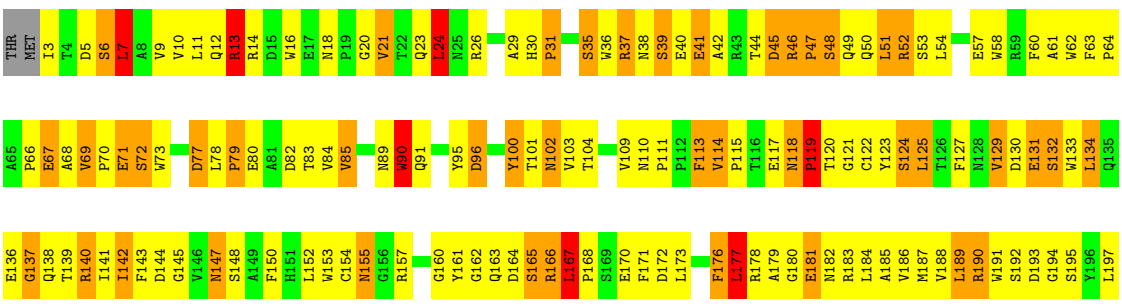


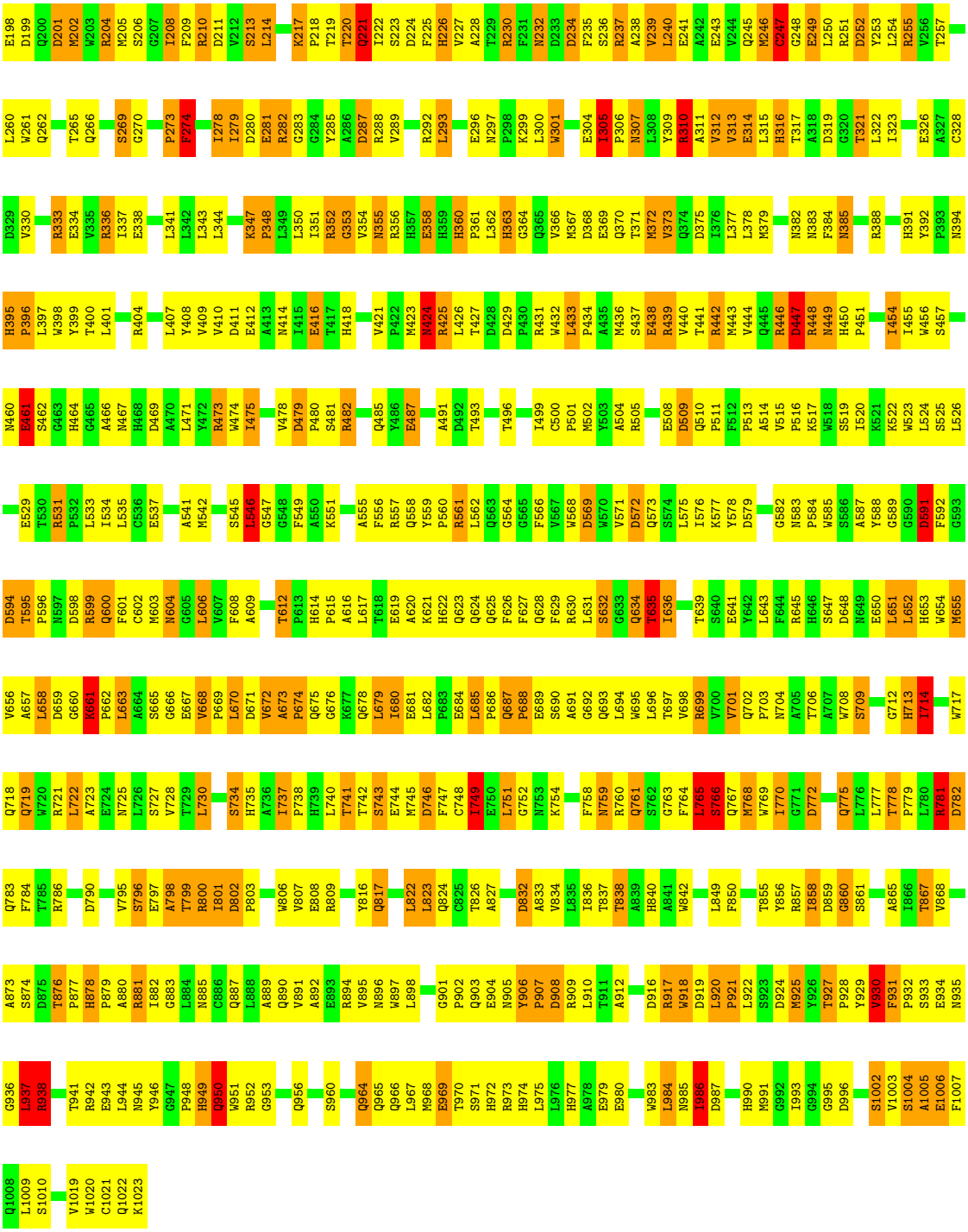




• Molecule 1: BETA-GALACTOSIDASE

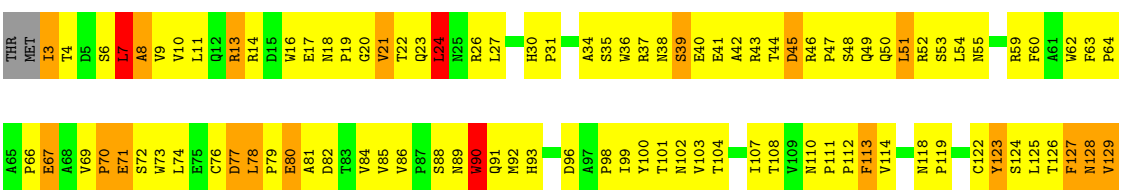
Chain N:

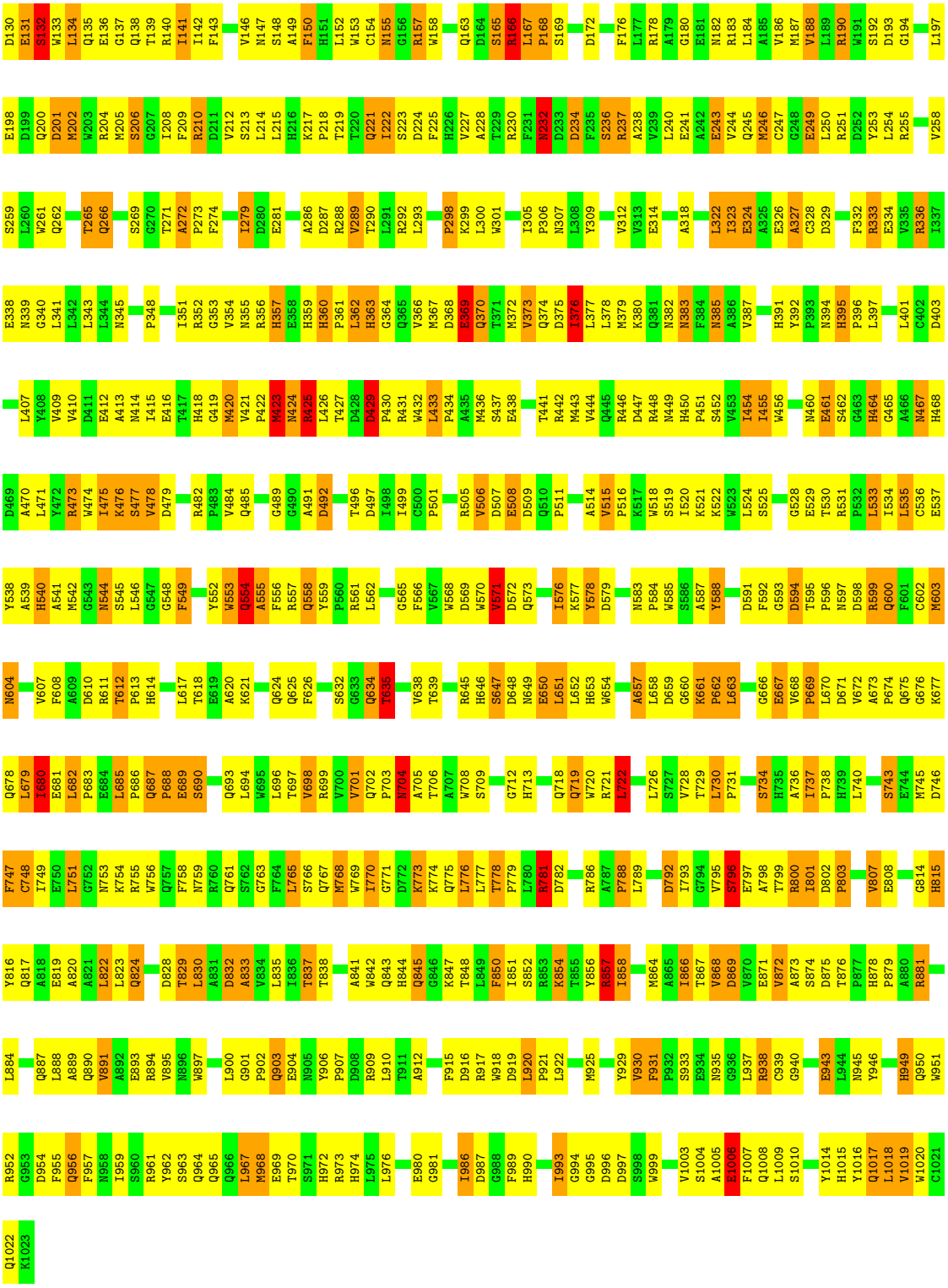




• Molecule 1: BETA-GALACTOSIDASE

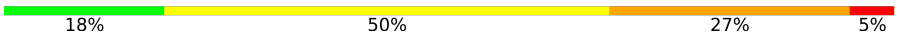
Chain O:

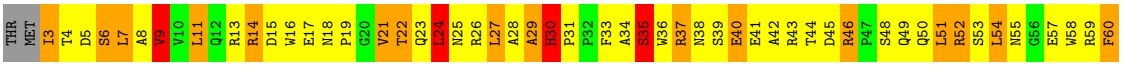


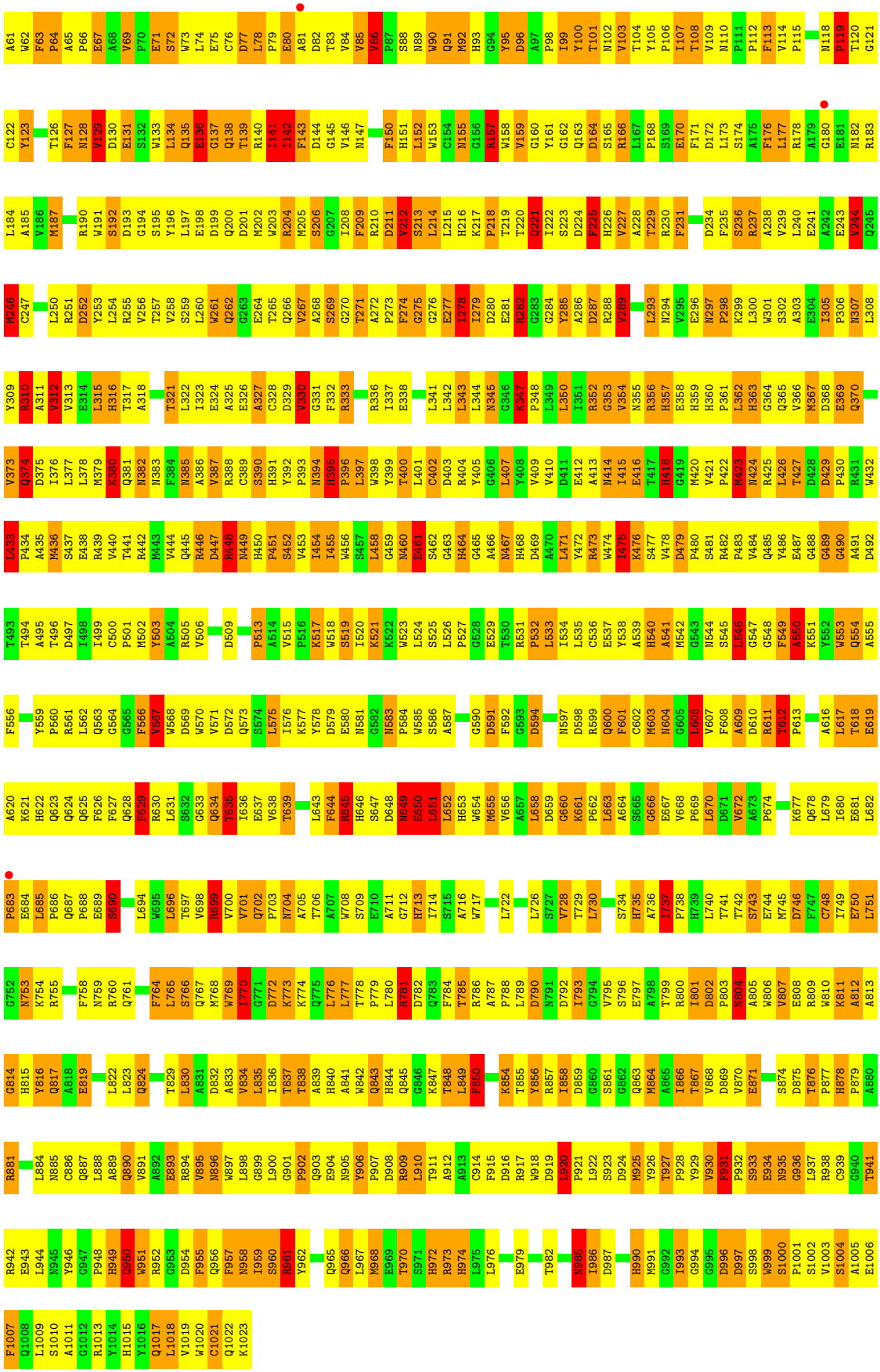


• Molecule 1: BETA-GALACTOSIDASE

Chain P:







4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	107.90Å 207.50Å 509.90Å 90.00° 94.70° 90.00°	Depositor
Resolution (Å)	8.00 – 2.50 8.00 – 2.50	Depositor EDS
% Data completeness (in resolution range)	(Not available) (8.00-2.50) 69.8 (8.00-2.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.07 (at 2.00Å)	Xtriage
Refinement program	TNT 5D, TNT V. 5-D	Depositor
R, R_{free}	0.174 , (Not available) 0.168 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å^2)	27.6	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 110.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	0.009 for h,-k,-h-l	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	132654	wwPDB-VP
Average B, all atoms (Å^2)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.98% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	1.47	18/8440 (0.2%)	1.80	145/11516 (1.3%)
1	B	1.47	24/8440 (0.3%)	1.76	133/11516 (1.2%)
1	C	1.51	46/8440 (0.5%)	1.76	135/11516 (1.2%)
1	D	1.46	26/8440 (0.3%)	1.78	154/11516 (1.3%)
1	E	1.46	26/8440 (0.3%)	1.84	178/11516 (1.5%)
1	F	1.51	26/8440 (0.3%)	1.82	170/11516 (1.5%)
1	G	1.46	24/8440 (0.3%)	1.79	158/11516 (1.4%)
1	H	1.45	30/8440 (0.4%)	1.84	178/11516 (1.5%)
1	I	1.42	20/8440 (0.2%)	1.81	153/11516 (1.3%)
1	J	1.41	18/8440 (0.2%)	1.74	116/11516 (1.0%)
1	K	1.34	14/8440 (0.2%)	1.71	123/11516 (1.1%)
1	L	1.39	18/8440 (0.2%)	1.83	191/11516 (1.7%)
1	M	1.44	24/8440 (0.3%)	1.87	177/11516 (1.5%)
1	N	1.42	27/8440 (0.3%)	1.76	137/11516 (1.2%)
1	O	1.35	11/8440 (0.1%)	1.74	120/11516 (1.0%)
1	P	1.46	29/8440 (0.3%)	1.91	226/11516 (2.0%)
All	All	1.44	381/135040 (0.3%)	1.80	2494/184256 (1.4%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	0
1	B	1	0
1	D	2	1
1	E	1	0
1	F	2	0
1	G	2	0
1	H	1	0

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	I	1	0
1	J	1	0
1	L	1	0
1	M	2	0
1	P	2	0
All	All	17	1

All (381) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	480	PRO	N-CA	-10.12	1.40	1.47
1	E	111	PRO	CA-C	10.00	1.57	1.51
1	C	222	ILE	CA-CB	-8.20	1.44	1.54
1	N	479	ASP	C-N	-8.11	1.25	1.34
1	P	330	VAL	C-N	8.08	1.38	1.33
1	C	573	GLN	CA-C	-8.02	1.44	1.53
1	D	479	ASP	C-N	-7.45	1.26	1.33
1	L	385	ASN	CA-C	-7.42	1.46	1.52
1	H	159	VAL	N-CA	-7.41	1.37	1.46
1	C	159	VAL	CA-CB	-7.38	1.48	1.55
1	E	870	VAL	CA-CB	-7.35	1.45	1.54
1	J	506	VAL	CA-CB	-7.33	1.45	1.54
1	K	649	ASN	C-O	-7.19	1.17	1.24
1	C	18	ASN	C-N	-7.17	1.27	1.34
1	H	855	THR	N-CA	-7.14	1.38	1.46
1	C	186	VAL	CA-CB	-7.04	1.45	1.54
1	D	212	VAL	CA-CB	-6.96	1.45	1.54
1	I	832	ASP	CA-C	-6.92	1.44	1.53
1	B	345	ASN	CA-C	-6.84	1.44	1.53
1	C	931	PHE	C-O	-6.84	1.18	1.24
1	J	335	VAL	CA-C	-6.83	1.44	1.52
1	P	358	GLU	CD-OE2	6.83	1.38	1.25
1	P	564	GLY	C-O	6.80	1.31	1.24
1	N	849	LEU	CA-C	-6.77	1.44	1.52
1	M	210	ARG	CA-C	-6.76	1.44	1.52
1	J	457	SER	N-CA	-6.75	1.37	1.46
1	G	345	ASN	CA-C	-6.74	1.44	1.53
1	E	872	VAL	CA-CB	-6.70	1.46	1.54
1	F	99	ILE	CA-C	-6.70	1.44	1.52
1	D	492	ASP	CA-C	6.67	1.61	1.52
1	I	920	LEU	C-O	-6.65	1.18	1.24
1	A	623	GLN	CA-C	6.63	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	24	LEU	C-O	-6.60	1.15	1.24
1	B	188	VAL	CA-CB	-6.59	1.46	1.54
1	O	222	ILE	CA-CB	-6.58	1.46	1.54
1	K	114	VAL	CA-C	6.56	1.58	1.52
1	E	954	ASP	CA-C	-6.55	1.46	1.53
1	D	954	ASP	CA-C	-6.50	1.47	1.53
1	J	866	ILE	CA-CB	-6.50	1.46	1.54
1	A	386	ALA	C-N	-6.48	1.24	1.33
1	M	872	VAL	CA-CB	-6.46	1.46	1.54
1	F	453	VAL	C-O	-6.46	1.17	1.24
1	C	278	ILE	N-CA	-6.44	1.39	1.46
1	G	627	PHE	CA-C	-6.34	1.45	1.52
1	M	500	CYS	CA-CB	6.32	1.59	1.53
1	N	305	ILE	CA-C	-6.31	1.46	1.52
1	D	519	SER	N-CA	-6.28	1.38	1.46
1	D	241	GLU	CA-C	-6.28	1.45	1.52
1	G	770	ILE	CA-C	-6.24	1.47	1.53
1	C	462	SER	CA-C	-6.23	1.44	1.52
1	C	986	ILE	CA-CB	-6.21	1.46	1.54
1	O	478	VAL	C-N	6.21	1.39	1.33
1	C	662	PRO	CA-C	-6.20	1.46	1.52
1	E	410	VAL	N-CA	-6.20	1.37	1.46
1	B	920	LEU	CA-C	-6.20	1.45	1.52
1	D	342	LEU	CA-C	-6.19	1.45	1.52
1	M	833	ALA	CA-C	-6.17	1.45	1.52
1	F	938	ARG	C-N	-6.16	1.25	1.33
1	B	470	ALA	CA-C	-6.16	1.45	1.52
1	D	295	VAL	CA-CB	-6.16	1.47	1.54
1	G	703	PRO	CA-C	-6.15	1.43	1.52
1	F	411	ASP	CA-C	-6.15	1.45	1.52
1	L	347	LYS	C-N	-6.14	1.28	1.33
1	L	534	ILE	CA-C	-6.13	1.45	1.52
1	P	790	ASP	CG-OD2	6.13	1.37	1.25
1	F	75	GLU	CD-OE1	6.12	1.36	1.25
1	A	878	HIS	CA-C	-6.12	1.47	1.53
1	K	82	ASP	CA-C	-6.11	1.45	1.52
1	C	330	VAL	CA-C	-6.10	1.45	1.52
1	M	777	LEU	CA-C	-6.10	1.44	1.52
1	P	663	LEU	CA-C	-6.08	1.44	1.52
1	J	297	ASN	CA-C	-6.05	1.49	1.53
1	E	604	ASN	C-O	-6.04	1.19	1.23
1	G	841	ALA	N-CA	-6.04	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	908	ASP	CG-OD2	6.04	1.36	1.25
1	F	866	ILE	CA-CB	-6.01	1.46	1.54
1	M	222	ILE	CA-C	-6.00	1.47	1.53
1	E	959	ILE	C-N	5.99	1.40	1.33
1	D	661	LYS	C-N	-5.97	1.27	1.33
1	C	479	ASP	C-N	-5.95	1.27	1.34
1	A	479	ASP	CA-C	-5.93	1.46	1.52
1	F	278	ILE	CA-C	-5.93	1.46	1.52
1	L	82	ASP	CA-C	-5.93	1.45	1.52
1	B	286	ALA	CA-C	-5.92	1.44	1.52
1	N	509	ASP	CA-C	-5.91	1.45	1.52
1	B	662	PRO	CA-C	-5.90	1.47	1.52
1	B	10	VAL	CA-CB	-5.89	1.47	1.54
1	H	764	PHE	CA-C	-5.89	1.45	1.52
1	D	10	VAL	CA-CB	-5.87	1.47	1.54
1	P	936	GLY	C-O	5.87	1.31	1.23
1	N	37	ARG	N-CA	-5.86	1.39	1.46
1	N	895	VAL	N-CA	-5.86	1.39	1.46
1	D	335	VAL	CA-C	-5.86	1.46	1.52
1	G	480	PRO	N-CA	-5.86	1.40	1.47
1	O	475	ILE	CA-C	-5.84	1.45	1.52
1	C	943	GLU	N-CA	-5.84	1.39	1.46
1	N	454	ILE	C-O	-5.83	1.17	1.24
1	C	126	THR	CA-C	-5.81	1.45	1.52
1	P	506	VAL	CA-CB	-5.81	1.46	1.54
1	C	167	LEU	N-CA	5.79	1.52	1.45
1	M	802	ASP	CG-OD2	5.79	1.36	1.25
1	H	1017	GLN	CA-C	-5.78	1.45	1.52
1	M	410	VAL	N-CA	-5.78	1.39	1.46
1	D	9	VAL	N-CA	-5.77	1.39	1.46
1	M	736	ALA	CA-C	-5.76	1.45	1.52
1	D	414	ASN	N-CA	-5.76	1.39	1.46
1	B	576	ILE	CA-CB	-5.76	1.47	1.54
1	P	451	PRO	CA-C	5.76	1.60	1.52
1	E	694	LEU	CA-C	5.75	1.60	1.52
1	E	30	HIS	CE1-NE2	5.75	1.38	1.32
1	P	935	ASN	CA-CB	-5.75	1.49	1.54
1	F	100	TYR	CA-C	-5.75	1.46	1.53
1	I	802	ASP	CG-OD2	5.75	1.36	1.25
1	O	554	GLN	CA-C	-5.74	1.45	1.53
1	G	839	ALA	CA-C	-5.74	1.46	1.52
1	G	297	ASN	CA-C	-5.73	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	272	ALA	N-CA	-5.73	1.41	1.46
1	H	829	THR	CA-C	-5.73	1.45	1.52
1	N	234	ASP	N-CA	-5.71	1.39	1.46
1	F	804	ASN	CA-C	-5.71	1.45	1.52
1	F	737	ILE	N-CA	-5.71	1.40	1.46
1	G	955	PHE	CA-CB	5.71	1.61	1.53
1	F	989	PHE	N-CA	-5.70	1.39	1.46
1	L	410	VAL	CA-CB	-5.69	1.46	1.53
1	C	574	SER	CA-C	-5.69	1.46	1.52
1	N	440	VAL	CA-CB	-5.68	1.47	1.54
1	M	866	ILE	CA-CB	-5.68	1.47	1.54
1	E	960	SER	N-CA	5.67	1.53	1.46
1	N	353	GLY	N-CA	5.67	1.50	1.44
1	B	164	ASP	CG-OD2	5.66	1.36	1.25
1	J	576	ILE	CA-CB	-5.65	1.46	1.53
1	E	356	ARG	CA-C	-5.65	1.46	1.52
1	H	998	SER	C-O	-5.64	1.19	1.24
1	M	290	THR	CA-C	-5.64	1.45	1.52
1	F	906	TYR	C-O	-5.64	1.19	1.24
1	J	650	GLU	N-CA	-5.63	1.39	1.46
1	E	450	HIS	C-N	-5.62	1.27	1.34
1	E	869	ASP	N-CA	-5.61	1.39	1.46
1	O	82	ASP	CA-C	-5.61	1.46	1.52
1	L	159	VAL	CA-CB	-5.60	1.49	1.55
1	N	423	MET	CA-C	5.60	1.60	1.52
1	P	764	PHE	CA-C	-5.60	1.45	1.52
1	E	483	PRO	CA-C	-5.59	1.46	1.52
1	E	205	MET	C-N	5.59	1.40	1.33
1	N	751	LEU	CA-C	-5.59	1.46	1.52
1	L	768	MET	N-CA	-5.59	1.39	1.46
1	L	302	SER	CA-C	-5.58	1.45	1.52
1	C	576	ILE	CA-CB	-5.58	1.47	1.54
1	B	207	GLY	CA-C	5.58	1.58	1.52
1	H	650	GLU	N-CA	-5.58	1.39	1.46
1	H	502	MET	CA-C	5.57	1.59	1.52
1	K	358	GLU	CD-OE2	5.56	1.35	1.25
1	N	769	TRP	CA-C	-5.56	1.46	1.52
1	H	147	ASN	CA-C	-5.56	1.46	1.52
1	P	855	THR	CA-C	-5.56	1.45	1.52
1	E	506	VAL	CA-CB	-5.56	1.47	1.54
1	B	650	GLU	CD-OE1	5.55	1.35	1.25
1	H	1019	VAL	CA-CB	-5.55	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	767	GLN	CA-C	-5.55	1.46	1.52
1	K	764	PHE	CA-C	-5.55	1.45	1.52
1	D	884	LEU	CA-C	-5.54	1.45	1.52
1	L	573	GLN	CA-C	-5.54	1.47	1.53
1	P	479	ASP	CA-C	-5.54	1.48	1.52
1	D	760	ARG	CA-C	-5.54	1.45	1.52
1	H	506	VAL	CA-CB	-5.54	1.47	1.54
1	J	332	PHE	CA-C	-5.54	1.45	1.52
1	C	872	VAL	C-O	-5.52	1.18	1.24
1	L	193	ASP	CG-OD2	5.52	1.35	1.25
1	L	641	GLU	CA-C	-5.52	1.46	1.53
1	B	289	VAL	CA-CB	-5.49	1.49	1.55
1	C	883	GLY	N-CA	5.49	1.50	1.45
1	F	450	HIS	CA-C	-5.49	1.47	1.52
1	A	60	PHE	C-O	-5.48	1.17	1.23
1	D	447	ASP	CG-OD2	5.48	1.35	1.25
1	D	668	VAL	CA-CB	-5.48	1.47	1.54
1	H	631	LEU	CA-C	-5.48	1.46	1.52
1	J	292	ARG	C-O	-5.47	1.17	1.24
1	L	279	ILE	N-CA	-5.47	1.40	1.46
1	C	269	SER	CA-C	-5.46	1.45	1.52
1	A	841	ALA	N-CA	-5.45	1.39	1.46
1	C	172	ASP	CG-OD2	5.45	1.35	1.25
1	M	865	ALA	N-CA	-5.44	1.39	1.46
1	E	737	ILE	N-CA	-5.43	1.39	1.46
1	H	376	ILE	C-O	-5.43	1.17	1.24
1	O	24	LEU	CA-C	-5.43	1.47	1.53
1	B	506	VAL	CA-CB	-5.42	1.47	1.54
1	P	395	HIS	CA-C	5.42	1.59	1.52
1	I	411	ASP	CG-OD2	5.42	1.35	1.25
1	I	698	VAL	CA-CB	-5.41	1.47	1.54
1	N	24	LEU	CA-C	-5.41	1.47	1.53
1	H	591	ASP	CG-OD2	5.41	1.35	1.25
1	F	999	TRP	N-CA	-5.40	1.41	1.46
1	J	704	ASN	CA-C	-5.40	1.46	1.52
1	K	188	VAL	CA-CB	-5.39	1.47	1.54
1	C	93	HIS	CA-C	-5.39	1.45	1.52
1	A	330	VAL	N-CA	-5.39	1.40	1.46
1	B	23	GLN	CA-C	-5.38	1.45	1.52
1	N	668	VAL	CA-CB	-5.38	1.47	1.54
1	P	933	SER	C-O	5.38	1.29	1.23
1	A	414	ASN	N-CA	-5.38	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	509	ASP	CG-OD2	5.38	1.35	1.25
1	E	833	ALA	CA-C	-5.38	1.46	1.52
1	F	326	GLU	CD-OE2	5.37	1.35	1.25
1	H	283	GLY	CA-C	5.37	1.57	1.52
1	N	306	PRO	N-CA	-5.37	1.43	1.47
1	C	519	SER	CA-C	5.37	1.59	1.52
1	C	532	PRO	N-CA	-5.36	1.41	1.46
1	G	360	HIS	CA-C	-5.36	1.47	1.53
1	L	650	GLU	CD-OE1	5.36	1.35	1.25
1	I	373	VAL	CA-CB	-5.36	1.47	1.54
1	C	500	CYS	CA-CB	5.35	1.58	1.53
1	C	202	MET	N-CA	-5.35	1.40	1.46
1	C	819	GLU	CD-OE1	5.34	1.35	1.25
1	M	842	TRP	CA-CB	-5.34	1.44	1.53
1	I	999	TRP	CA-C	-5.34	1.47	1.52
1	O	444	VAL	CA-CB	-5.34	1.47	1.54
1	L	63	PHE	CA-C	-5.33	1.47	1.52
1	O	479	ASP	N-CA	5.33	1.51	1.46
1	M	469	ASP	C-O	5.33	1.30	1.24
1	G	256	VAL	CA-C	-5.32	1.45	1.52
1	J	908	ASP	CG-OD2	5.32	1.35	1.25
1	P	24	LEU	CA-C	-5.32	1.46	1.52
1	P	461	GLU	CA-C	-5.32	1.45	1.52
1	P	666	GLY	CA-C	5.32	1.56	1.51
1	F	355	ASN	C-O	-5.31	1.17	1.23
1	A	950	GLN	C-O	-5.30	1.17	1.23
1	H	568	TRP	N-CA	-5.30	1.40	1.46
1	M	643	LEU	CA-C	-5.29	1.46	1.52
1	P	871	GLU	N-CA	-5.29	1.39	1.46
1	D	939	CYS	CA-C	-5.29	1.45	1.53
1	H	612	THR	C-N	-5.28	1.26	1.33
1	B	444	VAL	CA-CB	-5.28	1.48	1.54
1	P	447	ASP	CG-OD2	5.28	1.35	1.25
1	E	556	PHE	CA-C	-5.28	1.46	1.52
1	J	717	TRP	C-N	-5.27	1.26	1.33
1	J	478	VAL	N-CA	-5.26	1.40	1.46
1	N	906	TYR	C-N	-5.26	1.27	1.34
1	C	907	PRO	N-CA	-5.25	1.40	1.47
1	E	895	VAL	CA-CB	-5.25	1.47	1.54
1	H	565	GLY	C-O	5.25	1.29	1.23
1	K	245	GLN	N-CA	-5.25	1.39	1.46
1	H	506	VAL	C-N	-5.25	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	817	GLN	CA-C	5.25	1.59	1.52
1	K	804	ASN	CA-C	-5.25	1.45	1.52
1	G	996	ASP	CG-OD2	5.24	1.35	1.25
1	H	396	PRO	N-CA	-5.24	1.40	1.47
1	K	776	LEU	CA-C	-5.24	1.46	1.52
1	K	749	ILE	CA-C	-5.24	1.46	1.52
1	A	717	TRP	CA-C	-5.23	1.46	1.52
1	C	656	VAL	CA-CB	-5.22	1.48	1.54
1	C	421	VAL	CA-C	-5.22	1.48	1.52
1	J	291	LEU	CA-C	-5.22	1.46	1.52
1	P	895	VAL	C-N	-5.22	1.25	1.33
1	N	162	GLY	N-CA	5.22	1.50	1.45
1	H	327	ALA	CA-C	-5.21	1.46	1.52
1	M	668	VAL	CA-C	-5.21	1.47	1.52
1	B	970	THR	CA-C	5.21	1.59	1.52
1	J	80	GLU	CD-OE2	5.21	1.35	1.25
1	C	98	PRO	N-CA	-5.21	1.40	1.47
1	I	338	GLU	N-CA	-5.21	1.40	1.46
1	N	222	ILE	CA-CB	-5.21	1.47	1.54
1	G	650	GLU	CD-OE1	5.20	1.35	1.25
1	K	857	ARG	CA-C	-5.20	1.48	1.53
1	N	438	GLU	CD-OE2	5.20	1.35	1.25
1	B	181	GLU	CD-OE1	5.20	1.35	1.25
1	C	453	VAL	C-O	-5.20	1.18	1.24
1	M	193	ASP	CA-CB	5.20	1.61	1.53
1	P	650	GLU	CD-OE1	5.20	1.35	1.25
1	I	118	ASN	N-CA	-5.20	1.40	1.46
1	G	604	ASN	CA-C	-5.20	1.47	1.52
1	B	996	ASP	CG-OD2	5.19	1.35	1.25
1	L	872	VAL	CA-CB	-5.19	1.48	1.54
1	E	122	CYS	CA-C	-5.18	1.47	1.53
1	G	802	ASP	CA-C	-5.18	1.47	1.52
1	I	987	ASP	CG-OD2	5.18	1.35	1.25
1	E	295	VAL	CA-CB	-5.18	1.47	1.54
1	F	176	PHE	CA-C	-5.18	1.45	1.52
1	L	880	ALA	N-CA	-5.18	1.40	1.46
1	C	273	PRO	N-CA	-5.17	1.40	1.47
1	F	770	ILE	CA-C	-5.17	1.46	1.52
1	K	584	PRO	CA-C	-5.17	1.47	1.52
1	C	549	PHE	C-N	-5.17	1.27	1.34
1	C	1019	VAL	CA-CB	-5.17	1.48	1.54
1	C	919	ASP	CG-OD2	5.17	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	358	GLU	CA-C	-5.16	1.46	1.53
1	I	604	ASN	N-CA	-5.16	1.41	1.46
1	J	165	SER	CA-C	-5.16	1.45	1.52
1	H	650	GLU	CD-OE1	5.16	1.35	1.25
1	M	408	TYR	C-O	-5.16	1.17	1.24
1	C	411	ASP	CG-OD2	5.15	1.35	1.25
1	D	790	ASP	CG-OD2	5.15	1.35	1.25
1	E	957	PHE	C-N	-5.15	1.27	1.33
1	O	920	LEU	CA-C	-5.15	1.47	1.52
1	C	288	ARG	C-N	-5.15	1.28	1.33
1	N	347	LYS	CA-CB	-5.15	1.46	1.53
1	D	350	LEU	C-N	-5.14	1.28	1.33
1	P	750	GLU	CA-C	-5.14	1.46	1.52
1	I	374	GLN	CA-C	-5.14	1.46	1.52
1	C	188	VAL	CA-CB	-5.14	1.48	1.54
1	G	856	TYR	CA-C	5.14	1.59	1.52
1	N	461	GLU	CA-C	-5.14	1.45	1.52
1	O	470	ALA	C-N	5.14	1.41	1.33
1	N	558	GLN	CA-C	5.13	1.59	1.52
1	H	551	LYS	CA-C	5.13	1.59	1.52
1	L	430	PRO	N-CA	-5.13	1.40	1.47
1	N	749	ILE	CA-CB	-5.13	1.47	1.54
1	G	207	GLY	N-CA	5.13	1.51	1.45
1	P	837	THR	N-CA	-5.12	1.40	1.46
1	B	694	LEU	CA-C	5.12	1.59	1.52
1	N	85	VAL	N-CA	-5.12	1.40	1.46
1	G	413	ALA	C-N	-5.11	1.27	1.33
1	A	972	HIS	C-N	-5.11	1.27	1.34
1	H	864	MET	SD-CE	-5.11	1.66	1.79
1	G	229	THR	C-N	-5.10	1.27	1.33
1	E	433	LEU	C-N	-5.10	1.27	1.34
1	F	368	ASP	CG-OD2	5.10	1.35	1.25
1	M	562	LEU	CA-C	-5.10	1.46	1.52
1	F	114	VAL	CA-C	5.10	1.58	1.52
1	L	513	PRO	CA-C	5.10	1.58	1.52
1	P	520	ILE	CA-CB	-5.10	1.47	1.54
1	C	329	ASP	CA-C	-5.09	1.46	1.52
1	D	917	ARG	N-CA	-5.09	1.39	1.46
1	I	186	VAL	CA-CB	-5.09	1.48	1.54
1	J	939	CYS	CA-C	-5.09	1.46	1.53
1	C	896	ASN	CA-C	-5.09	1.46	1.52
1	M	290	THR	N-CA	-5.08	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	869	ASP	CG-OD1	-5.08	1.15	1.25
1	E	668	VAL	CA-C	-5.08	1.47	1.52
1	H	976	LEU	CA-C	-5.07	1.46	1.52
1	O	841	ALA	N-CA	-5.07	1.40	1.46
1	A	99	ILE	CA-CB	-5.07	1.48	1.54
1	A	529	GLU	CD-OE2	5.07	1.34	1.25
1	C	190	ARG	C-O	-5.07	1.18	1.24
1	F	244	VAL	CA-CB	-5.07	1.47	1.54
1	F	610	ASP	CG-OD1	5.07	1.34	1.25
1	D	111	PRO	CA-C	5.07	1.54	1.51
1	F	297	ASN	C-O	5.07	1.26	1.23
1	M	118	ASN	CA-CB	5.07	1.59	1.53
1	C	342	LEU	C-O	-5.07	1.17	1.24
1	F	186	VAL	CA-CB	-5.07	1.48	1.54
1	H	905	ASN	C-O	-5.07	1.17	1.23
1	A	21	VAL	CA-CB	-5.06	1.48	1.53
1	C	641	GLU	CA-C	-5.06	1.46	1.52
1	I	767	GLN	CA-C	-5.06	1.46	1.52
1	G	553	TRP	C-N	-5.05	1.27	1.33
1	I	867	THR	N-CA	-5.05	1.40	1.46
1	P	416	GLU	CD-OE1	5.05	1.34	1.25
1	A	935	ASN	C-O	-5.05	1.18	1.24
1	H	335	VAL	CA-C	-5.04	1.47	1.52
1	C	638	VAL	CA-CB	-5.04	1.48	1.54
1	I	224	ASP	CA-C	-5.04	1.46	1.52
1	P	972	HIS	CA-C	-5.04	1.46	1.52
1	I	744	GLU	CD-OE2	5.04	1.34	1.25
1	D	829	THR	CA-C	-5.04	1.46	1.52
1	P	395	HIS	CG-ND1	5.04	1.43	1.38
1	P	979	GLU	C-O	5.04	1.30	1.23
1	B	983	TRP	CA-CB	-5.03	1.45	1.53
1	I	386	ALA	N-CA	-5.03	1.40	1.46
1	M	498	ILE	C-O	-5.03	1.19	1.24
1	G	930	VAL	CA-CB	-5.03	1.47	1.54
1	J	118	ASN	N-CA	-5.03	1.42	1.46
1	D	628	GLN	CA-C	-5.03	1.46	1.52
1	A	527	PRO	N-CA	-5.03	1.41	1.47
1	G	499	ILE	CA-CB	-5.03	1.48	1.54
1	N	858	ILE	CA-CB	-5.03	1.48	1.54
1	C	38	ASN	C-O	-5.03	1.17	1.23
1	N	918	TRP	N-CA	-5.03	1.40	1.45
1	D	144	ASP	CG-OD2	5.02	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	169	SER	CA-CB	-5.02	1.46	1.53
1	F	131	GLU	CD-OE2	5.02	1.34	1.25
1	A	624	GLN	C-O	-5.01	1.17	1.24
1	F	264	GLU	CA-C	-5.01	1.46	1.52
1	B	478	VAL	CA-CB	-5.01	1.48	1.54
1	D	239	VAL	N-CA	-5.01	1.40	1.46
1	B	222	ILE	CA-CB	-5.01	1.47	1.53
1	B	847	LYS	CA-C	-5.01	1.46	1.52
1	H	959	ILE	C-N	-5.01	1.28	1.33
1	G	246	MET	CA-C	-5.00	1.46	1.52
1	B	1009	LEU	CA-C	-5.00	1.47	1.53
1	K	869	ASP	N-CA	-5.00	1.40	1.46
1	P	651	LEU	C-O	5.00	1.29	1.24

All (2494) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	352	ARG	CA-C-N	-13.58	110.38	122.47
1	A	352	ARG	C-N-CA	-13.58	110.38	122.47
1	H	363	HIS	CA-CB-CG	-12.89	100.91	113.80
1	C	363	HIS	CA-CB-CG	-11.81	101.98	113.80
1	P	424	ASN	CA-CB-CG	-11.69	100.91	112.60
1	B	717	TRP	CA-C-N	11.57	139.25	123.05
1	B	717	TRP	C-N-CA	11.57	139.25	123.05
1	O	424	ASN	CB-CA-C	-11.25	92.81	110.81
1	L	352	ARG	CA-C-N	-11.02	110.55	122.67
1	L	352	ARG	C-N-CA	-11.02	110.55	122.67
1	M	193	ASP	N-CA-C	-10.90	99.50	113.12
1	B	833	ALA	N-CA-C	10.71	122.08	107.73
1	G	385	ASN	CB-CA-C	-10.71	89.87	110.11
1	K	159	VAL	N-CA-C	10.70	120.76	111.56
1	P	363	HIS	CA-CB-CG	-10.57	103.23	113.80
1	N	423	MET	CA-C-N	10.44	134.64	120.44
1	N	423	MET	C-N-CA	10.44	134.64	120.44
1	I	423	MET	CA-C-N	10.21	133.72	120.44
1	I	423	MET	C-N-CA	10.21	133.72	120.44
1	P	935	ASN	N-CA-C	10.21	120.24	108.49
1	F	606	LEU	N-CA-C	-10.16	100.36	113.17
1	H	385	ASN	CB-CA-C	-10.11	93.67	109.34
1	C	614	HIS	N-CA-C	-10.06	98.56	110.13
1	H	790	ASP	CA-CB-CG	-9.98	102.62	112.60
1	M	585	TRP	N-CA-C	9.94	125.00	107.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	949	HIS	N-CA-C	9.92	123.12	110.33
1	P	566	PHE	CA-CB-CG	-9.84	103.96	113.80
1	L	159	VAL	CB-CA-C	-9.76	103.42	111.71
1	G	606	LEU	N-CA-C	-9.72	101.42	113.38
1	D	385	ASN	CB-CA-C	-9.71	93.31	109.03
1	L	297	ASN	CB-CA-C	-9.64	104.36	111.20
1	E	385	ASN	CA-CB-CG	-9.57	103.03	112.60
1	H	951	TRP	N-CA-CB	9.54	126.11	110.85
1	A	571	VAL	CB-CA-C	-9.48	96.21	110.82
1	P	475	ILE	O-C-N	9.45	131.17	121.91
1	D	95	TYR	N-CA-C	9.39	122.37	111.11
1	B	84	VAL	N-CA-CB	-9.37	101.66	112.34
1	L	737	ILE	N-CA-CB	9.35	124.30	111.21
1	J	423	MET	CA-C-N	9.33	132.56	120.44
1	J	423	MET	C-N-CA	9.33	132.56	120.44
1	I	181	GLU	N-CA-C	9.32	125.41	108.17
1	N	384	PHE	CA-CB-CG	-9.30	104.50	113.80
1	O	385	ASN	CB-CA-C	-9.26	94.78	110.24
1	P	63	PHE	CA-C-N	9.24	129.48	119.87
1	P	63	PHE	C-N-CA	9.24	129.48	119.87
1	A	570	TRP	N-CA-C	9.16	121.20	111.03
1	L	394	ASN	CA-CB-CG	9.14	121.74	112.60
1	A	382	ASN	CA-CB-CG	-9.12	103.48	112.60
1	F	31	PRO	N-CA-CB	9.12	107.96	103.22
1	G	584	PRO	CB-CA-C	-9.07	103.15	111.40
1	P	307	ASN	CA-CB-CG	-9.06	103.54	112.60
1	H	395	HIS	CA-C-O	9.03	127.29	119.71
1	A	385	ASN	N-CA-CB	-9.02	98.90	110.90
1	I	606	LEU	N-CA-C	-9.02	102.28	113.28
1	F	31	PRO	O-C-N	9.00	125.38	121.15
1	H	385	ASN	CA-CB-CG	8.98	121.58	112.60
1	K	114	VAL	N-CA-CB	-8.96	104.06	111.67
1	M	272	ALA	N-CA-C	8.91	119.60	108.11
1	E	5	ASP	CA-CB-CG	-8.89	103.71	112.60
1	H	796	SER	N-CA-CB	8.88	123.08	109.85
1	I	209	PHE	N-CA-C	8.87	124.11	113.28
1	E	606	LEU	N-CA-C	-8.86	102.61	112.72
1	L	425	ARG	NE-CZ-NH2	8.86	127.17	119.20
1	F	770	ILE	N-CA-CB	8.85	123.43	112.10
1	D	996	ASP	N-CA-C	-8.78	102.56	113.18
1	L	385	ASN	CA-CB-CG	-8.77	103.83	112.60
1	P	142	ILE	N-CA-C	8.77	120.80	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	287	ASP	CB-CA-C	-8.75	100.45	111.22
1	A	980	GLU	N-CA-C	8.74	121.69	111.02
1	P	30	HIS	CA-CB-CG	-8.74	105.06	113.80
1	P	735	HIS	CA-CB-CG	-8.73	105.07	113.80
1	I	363	HIS	CA-CB-CG	-8.72	105.08	113.80
1	C	385	ASN	CB-CA-C	-8.71	95.84	109.34
1	E	574	SER	CA-CB-OG	-8.70	93.71	111.10
1	D	661	LYS	CA-C-O	8.68	125.74	119.32
1	F	516	PRO	CB-CA-C	-8.68	100.12	111.23
1	D	606	LEU	N-CA-C	-8.68	102.24	113.17
1	M	492	ASP	CA-CB-CG	-8.67	103.93	112.60
1	G	977	HIS	CA-CB-CG	-8.67	105.13	113.80
1	M	606	LEU	N-CA-C	-8.67	102.71	113.28
1	M	147	ASN	CA-CB-CG	8.66	121.27	112.60
1	H	464	HIS	CA-CB-CG	-8.65	105.15	113.80
1	I	147	ASN	CA-CB-CG	8.64	121.24	112.60
1	P	382	ASN	CA-CB-CG	-8.64	103.96	112.60
1	K	924	ASP	CA-CB-CG	-8.64	103.96	112.60
1	H	248	GLY	N-CA-C	8.60	120.25	111.56
1	M	222	ILE	CB-CA-C	-8.60	100.79	111.88
1	P	303	ALA	N-CA-C	-8.59	101.85	111.82
1	B	718	GLN	N-CA-CB	8.58	124.01	110.55
1	A	147	ASN	CA-CB-CG	8.56	121.16	112.60
1	H	353	GLY	N-CA-C	8.55	123.62	111.14
1	E	959	ILE	CA-C-O	-8.54	112.36	121.93
1	F	424	ASN	CB-CA-C	-8.54	97.14	110.81
1	L	274	PHE	CA-CB-CG	-8.52	105.28	113.80
1	C	345	ASN	CA-CB-CG	-8.51	104.09	112.60
1	H	938	ARG	N-CA-CB	8.51	124.83	110.71
1	E	614	HIS	N-CA-C	-8.51	99.26	110.40
1	K	382	ASN	CA-CB-CG	-8.50	104.10	112.60
1	F	338	GLU	N-CA-CB	-8.47	97.83	111.22
1	L	626	PHE	CA-CB-CG	-8.47	105.33	113.80
1	D	4	THR	N-CA-C	-8.44	103.47	112.93
1	A	114	VAL	N-CA-CB	-8.44	102.58	111.87
1	B	614	HIS	N-CA-C	-8.44	99.34	110.40
1	G	159	VAL	N-CA-C	8.43	118.73	111.90
1	B	93	HIS	CA-CB-CG	-8.41	105.39	113.80
1	F	385	ASN	CB-CA-C	-8.40	96.21	110.24
1	J	167	LEU	CA-C-N	8.40	128.43	119.78
1	J	167	LEU	C-N-CA	8.40	128.43	119.78
1	M	735	HIS	CA-CB-CG	-8.40	105.40	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	345	ASN	CA-CB-CG	-8.39	104.21	112.60
1	E	931	PHE	CB-CA-C	8.38	118.88	110.33
1	K	113	PHE	CA-CB-CG	-8.38	105.42	113.80
1	G	210	ARG	N-CA-CB	8.36	123.16	110.70
1	I	63	PHE	CA-C-N	8.36	127.66	118.97
1	I	63	PHE	C-N-CA	8.36	127.66	118.97
1	F	287	ASP	CA-CB-CG	-8.32	104.28	112.60
1	M	790	ASP	CA-CB-CG	-8.32	104.28	112.60
1	H	608	PHE	N-CA-CB	8.31	122.22	109.85
1	P	564	GLY	CA-C-O	8.28	129.41	121.30
1	A	90	TRP	N-CA-C	8.25	120.27	111.28
1	I	746	ASP	N-CA-C	8.20	119.44	107.88
1	C	571	VAL	CB-CA-C	-8.20	99.09	110.90
1	L	920	LEU	CA-C-N	8.19	128.50	119.90
1	L	920	LEU	C-N-CA	8.19	128.50	119.90
1	E	307	ASN	CA-CB-CG	-8.19	104.42	112.60
1	M	447	ASP	N-CA-C	8.18	119.98	111.14
1	F	159	VAL	N-CA-C	8.18	118.99	112.12
1	F	914	CYS	CB-CA-C	8.18	124.10	109.38
1	C	352	ARG	CA-C-N	-8.16	114.91	122.17
1	C	352	ARG	C-N-CA	-8.16	114.91	122.17
1	J	424	ASN	CB-CA-C	-8.15	98.08	110.88
1	P	927	THR	O-C-N	8.15	128.85	121.19
1	B	989	PHE	CA-CB-CG	-8.15	105.65	113.80
1	D	385	ASN	N-CA-CB	-8.15	99.75	110.59
1	P	279	ILE	N-CA-C	-8.15	104.55	111.56
1	N	274	PHE	CA-CB-CG	-8.14	105.66	113.80
1	J	297	ASN	CA-CB-CG	-8.13	104.47	112.60
1	O	222	ILE	CB-CA-C	-8.12	101.14	110.96
1	E	645	ARG	N-CA-C	8.08	121.20	110.53
1	K	606	LEU	N-CA-C	-8.08	103.45	113.38
1	J	363	HIS	CA-CB-CG	-8.05	105.75	113.80
1	G	722	LEU	N-CA-C	8.05	119.83	111.14
1	P	330	VAL	N-CA-C	8.04	119.49	107.75
1	O	949	HIS	CA-CB-CG	-8.04	105.76	113.80
1	P	353	GLY	N-CA-C	8.01	122.80	111.10
1	C	423	MET	CA-C-N	8.01	131.35	120.54
1	C	423	MET	C-N-CA	8.01	131.35	120.54
1	P	1007	PHE	CA-CB-CG	-8.00	105.80	113.80
1	O	157	ARG	N-CA-C	7.99	121.86	108.20
1	I	684	GLU	CB-CA-C	7.99	119.62	109.80
1	E	927	THR	CA-C-N	7.99	129.82	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	927	THR	C-N-CA	7.99	129.82	119.84
1	G	40	GLU	N-CA-CB	7.99	121.95	110.13
1	L	63	PHE	CA-C-N	7.98	127.62	119.56
1	L	63	PHE	C-N-CA	7.98	127.62	119.56
1	P	1004	SER	N-CA-C	7.98	121.75	110.50
1	M	449	ASN	CA-CB-CG	7.95	120.55	112.60
1	N	878	HIS	CA-CB-CG	-7.94	105.86	113.80
1	I	840	HIS	CA-CB-CG	7.92	121.72	113.80
1	L	914	CYS	N-CA-CB	7.92	123.44	110.69
1	E	447	ASP	N-CA-C	7.91	123.26	112.90
1	L	935	ASN	N-CA-C	7.91	118.33	107.73
1	B	110	ASN	CA-CB-CG	-7.91	104.69	112.60
1	M	441	THR	CA-CB-OG1	-7.91	97.74	109.60
1	P	753	ASN	CA-CB-CG	-7.89	104.71	112.60
1	F	533	LEU	N-CA-CB	7.89	122.94	110.55
1	M	540	HIS	CA-CB-CG	-7.89	105.91	113.80
1	P	78	LEU	CB-CA-C	7.89	119.64	108.68
1	D	840	HIS	CA-CB-CG	7.88	121.68	113.80
1	E	945	ASN	CA-CB-CG	-7.86	104.74	112.60
1	P	157	ARG	N-CA-C	7.86	122.26	109.76
1	I	977	HIS	CA-CB-CG	-7.86	105.94	113.80
1	P	394	ASN	N-CA-C	7.84	121.51	108.73
1	E	216	HIS	CA-CB-CG	-7.84	105.96	113.80
1	M	352	ARG	CA-C-N	-7.84	112.00	122.03
1	M	352	ARG	C-N-CA	-7.84	112.00	122.03
1	H	352	ARG	CA-C-N	-7.83	115.24	121.82
1	H	352	ARG	C-N-CA	-7.83	115.24	121.82
1	E	353	GLY	N-CA-C	7.81	122.54	111.14
1	I	964	GLN	N-CA-C	-7.80	103.03	112.54
1	F	338	GLU	O-C-N	-7.80	111.98	122.74
1	J	568	TRP	CA-C-N	7.79	135.72	121.70
1	J	568	TRP	C-N-CA	7.79	135.72	121.70
1	L	38	ASN	N-CA-CB	7.79	123.17	110.32
1	B	718	GLN	CB-CA-C	7.77	122.94	110.19
1	J	382	ASN	CA-CB-CG	-7.76	104.84	112.60
1	E	423	MET	CA-C-N	7.75	130.51	120.44
1	E	423	MET	C-N-CA	7.75	130.51	120.44
1	P	336	ARG	N-CA-C	7.75	121.53	108.90
1	L	511	PRO	N-CA-CB	7.74	107.84	102.35
1	N	977	HIS	CA-CB-CG	-7.72	106.08	113.80
1	G	423	MET	CA-C-N	7.71	133.60	120.72
1	G	423	MET	C-N-CA	7.71	133.60	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	614	HIS	N-CA-C	-7.71	101.26	110.13
1	C	989	PHE	CA-CB-CG	-7.71	106.09	113.80
1	K	277	GLU	N-CA-C	7.70	120.27	110.33
1	P	927	THR	CB-CA-C	7.70	117.80	110.17
1	N	316	HIS	CA-CB-CG	-7.70	106.10	113.80
1	F	316	HIS	CA-CB-CG	-7.69	106.11	113.80
1	F	612	THR	CA-C-N	7.68	127.44	119.76
1	F	612	THR	C-N-CA	7.68	127.44	119.76
1	H	209	PHE	N-CA-C	7.68	122.83	113.38
1	M	424	ASN	CA-CB-CG	-7.68	104.92	112.60
1	M	300	LEU	N-CA-C	7.68	120.67	110.53
1	M	567	VAL	N-CA-CB	7.68	120.78	110.26
1	F	949	HIS	CA-CB-CG	-7.68	106.12	113.80
1	C	150	PHE	N-CA-C	7.67	120.05	108.46
1	J	612	THR	CA-C-N	7.67	127.43	119.76
1	J	612	THR	C-N-CA	7.67	127.43	119.76
1	P	604	ASN	CA-CB-CG	7.67	120.27	112.60
1	G	90	TRP	N-CA-C	7.64	120.50	111.71
1	J	482	ARG	O-C-N	7.62	128.36	121.80
1	I	161	TYR	N-CA-CB	-7.62	99.18	111.22
1	K	102	ASN	CA-C-N	-7.62	115.50	122.97
1	K	102	ASN	C-N-CA	-7.62	115.50	122.97
1	E	433	LEU	CA-C-O	7.62	125.34	118.33
1	H	142	ILE	N-CA-C	7.62	119.39	107.28
1	O	4	THR	N-CA-C	-7.62	103.58	113.17
1	I	352	ARG	CA-C-N	-7.61	113.41	121.48
1	I	352	ARG	C-N-CA	-7.61	113.41	121.48
1	B	157	ARG	N-CA-C	7.61	121.14	108.73
1	H	601	PHE	CA-CB-CG	-7.60	106.20	113.80
1	E	980	GLU	N-CA-C	7.59	119.19	111.07
1	D	914	CYS	CB-CA-C	7.59	122.32	109.50
1	N	446	ARG	N-CA-C	7.59	119.33	111.14
1	N	147	ASN	CA-CB-CG	7.58	120.18	112.60
1	H	718	GLN	CB-CA-C	7.57	124.25	109.33
1	N	89	ASN	CA-CB-CG	7.57	120.17	112.60
1	A	278	ILE	CA-C-N	-7.54	115.34	122.66
1	A	278	ILE	C-N-CA	-7.54	115.34	122.66
1	E	310	ARG	N-CA-CB	7.54	122.72	110.43
1	J	385	ASN	CB-CA-C	-7.54	97.54	110.88
1	O	345	ASN	CA-CB-CG	-7.54	105.06	112.60
1	D	512	PHE	CA-CB-CG	-7.53	106.27	113.80
1	C	511	PRO	N-CA-CB	7.52	107.51	102.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	386	ALA	N-CA-CB	-7.52	99.88	111.46
1	P	958	ASN	CA-CB-CG	7.49	120.09	112.60
1	L	209	PHE	N-CA-C	7.49	122.26	113.20
1	N	167	LEU	CA-C-N	7.48	127.49	119.78
1	N	167	LEU	C-N-CA	7.48	127.49	119.78
1	N	306	PRO	N-CA-CB	7.48	107.72	102.79
1	P	278	ILE	CA-C-N	-7.48	115.53	123.08
1	P	278	ILE	C-N-CA	-7.48	115.53	123.08
1	H	480	PRO	N-CA-C	-7.46	105.13	114.68
1	F	423	MET	CA-C-N	7.44	130.59	120.54
1	F	423	MET	C-N-CA	7.44	130.59	120.54
1	M	118	ASN	CA-C-O	7.44	127.15	119.49
1	N	996	ASP	N-CA-C	-7.43	103.47	112.54
1	P	354	VAL	N-CA-C	7.43	118.82	108.12
1	P	702	GLN	CB-CA-C	-7.43	102.81	110.17
1	A	429	ASP	CA-C-O	7.43	126.42	119.59
1	B	287	ASP	CA-CB-CG	-7.43	105.17	112.60
1	C	481	SER	N-CA-C	7.43	121.60	112.54
1	E	921	PRO	CB-CA-C	-7.42	101.89	111.46
1	E	668	VAL	O-C-N	7.42	129.56	121.10
1	N	572	ASP	CA-CB-CG	7.42	120.02	112.60
1	K	337	ILE	CB-CA-C	-7.42	103.94	111.80
1	H	996	ASP	CA-CB-CG	-7.41	105.19	112.60
1	C	875	ASP	CA-CB-CG	7.39	119.99	112.60
1	P	464	HIS	CA-CB-CG	-7.39	106.41	113.80
1	G	770	ILE	O-C-N	7.38	129.68	122.30
1	G	329	ASP	N-CA-CB	7.38	122.66	110.63
1	K	635	THR	N-CA-C	7.38	121.26	109.24
1	L	1007	PHE	CA-CB-CG	-7.37	106.43	113.80
1	P	927	THR	CA-C-N	7.37	129.05	119.84
1	P	927	THR	C-N-CA	7.37	129.05	119.84
1	E	251	ARG	N-CA-C	7.37	119.53	107.23
1	G	209	PHE	N-CA-C	7.36	122.26	113.28
1	H	949	HIS	CA-CB-CG	-7.36	106.44	113.80
1	L	363	HIS	CA-CB-CG	-7.36	106.44	113.80
1	L	566	PHE	CA-CB-CG	-7.35	106.45	113.80
1	O	360	HIS	CA-C-N	7.35	127.70	119.32
1	O	360	HIS	C-N-CA	7.35	127.70	119.32
1	O	986	ILE	N-CA-CB	7.35	120.87	111.83
1	K	638	VAL	CB-CA-C	-7.35	101.60	111.15
1	L	570	TRP	CB-CA-C	-7.34	99.57	110.95
1	A	151	HIS	CA-CB-CG	-7.34	106.46	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	347	LYS	CA-C-N	7.33	129.24	120.23
1	F	347	LYS	C-N-CA	7.33	129.24	120.23
1	E	424	ASN	CA-CB-CG	-7.31	105.29	112.60
1	L	773	LYS	N-CA-C	7.31	120.86	109.96
1	B	303	ALA	N-CA-C	-7.31	103.31	111.71
1	L	76	CYS	N-CA-C	7.30	120.43	108.52
1	F	306	PRO	N-CA-CB	7.30	107.53	102.35
1	N	385	ASN	CB-CA-C	-7.30	98.40	110.37
1	G	142	ILE	CB-CA-C	-7.29	102.05	110.73
1	H	592	PHE	CA-CB-CG	-7.29	106.52	113.80
1	D	746	ASP	N-CA-C	7.28	117.49	107.73
1	P	713	HIS	CA-CB-CG	7.28	121.08	113.80
1	E	985	ASN	N-CA-CB	7.27	121.98	110.57
1	A	627	PHE	CA-CB-CG	-7.26	106.54	113.80
1	H	424	ASN	N-CA-C	7.26	119.27	111.36
1	D	714	ILE	CB-CA-C	-7.25	100.97	110.84
1	F	687	GLN	C-N-CD	-7.25	95.28	125.00
1	K	737	ILE	N-CA-CB	7.25	121.36	111.21
1	P	447	ASP	N-CA-C	7.25	122.39	112.90
1	F	360	HIS	CA-C-N	7.24	128.89	119.84
1	F	360	HIS	C-N-CA	7.24	128.89	119.84
1	I	583	ASN	CB-CA-C	7.24	119.08	108.87
1	G	927	THR	CA-C-N	7.24	128.89	119.84
1	G	927	THR	C-N-CA	7.24	128.89	119.84
1	F	147	ASN	N-CA-CB	-7.23	98.64	110.42
1	A	955	PHE	CA-CB-CG	-7.22	106.58	113.80
1	L	614	HIS	N-CA-C	-7.21	101.84	110.13
1	L	559	TYR	CA-C-N	7.21	127.54	119.32
1	L	559	TYR	C-N-CA	7.21	127.54	119.32
1	B	424	ASN	CB-CA-C	-7.19	98.85	110.79
1	M	796	SER	N-CA-CB	7.19	120.69	109.83
1	G	402	CYS	N-CA-CB	7.18	120.68	110.12
1	D	510	GLN	CA-C-O	7.17	126.23	119.99
1	E	545	SER	N-CA-C	7.17	117.73	108.34
1	C	828	ASP	CA-CB-CG	7.16	119.76	112.60
1	B	147	ASN	CA-CB-CG	7.16	119.76	112.60
1	G	839	ALA	CB-CA-C	-7.16	101.78	110.94
1	B	423	MET	CA-C-N	7.15	129.87	120.28
1	B	423	MET	C-N-CA	7.15	129.87	120.28
1	F	423	MET	CB-CA-C	7.15	122.66	110.79
1	F	395	HIS	CA-CB-CG	7.15	120.95	113.80
1	J	947	GLY	CA-C-N	7.15	126.86	119.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	947	GLY	C-N-CA	7.15	126.86	119.64
1	J	351	ILE	N-CA-C	7.14	117.68	108.12
1	D	682	LEU	CA-C-N	7.13	127.55	119.92
1	D	682	LEU	C-N-CA	7.13	127.55	119.92
1	K	352	ARG	CA-C-N	-7.13	113.92	121.48
1	K	352	ARG	C-N-CA	-7.13	113.92	121.48
1	D	224	ASP	CA-CB-CG	7.12	119.72	112.60
1	M	395	HIS	CA-C-N	7.12	128.74	119.84
1	M	395	HIS	C-N-CA	7.12	128.74	119.84
1	D	424	ASN	N-CA-CB	-7.12	98.89	110.42
1	C	221	GLN	N-CA-C	7.11	118.89	108.86
1	F	481	SER	N-CA-C	7.11	121.06	112.38
1	K	213	SER	N-CA-C	7.11	119.55	108.96
1	A	298	PRO	CB-CA-C	-7.10	102.30	111.39
1	N	782	ASP	CA-CB-CG	-7.09	105.51	112.60
1	B	272	ALA	N-CA-C	7.08	114.50	108.13
1	L	814	GLY	N-CA-C	-7.08	105.45	114.37
1	G	938	ARG	N-CA-CB	7.07	122.52	110.57
1	F	221	GLN	N-CA-C	7.07	118.92	108.60
1	O	167	LEU	CA-C-N	7.07	127.06	119.78
1	O	167	LEU	C-N-CA	7.07	127.06	119.78
1	F	4	THR	N-CA-C	-7.06	103.33	112.23
1	H	823	LEU	N-CA-C	-7.06	105.29	114.04
1	P	40	GLU	N-CA-CB	7.06	122.42	110.49
1	M	99	ILE	N-CA-CB	7.06	121.15	111.41
1	I	300	LEU	N-CA-C	7.05	119.84	110.53
1	O	363	HIS	CA-CB-CG	-7.05	106.75	113.80
1	G	297	ASN	CB-CA-C	-7.04	104.88	111.00
1	O	234	ASP	CA-CB-CG	-7.04	105.56	112.60
1	D	105	TYR	CA-C-N	7.04	126.74	119.56
1	D	105	TYR	C-N-CA	7.04	126.74	119.56
1	L	221	GLN	N-CA-C	7.04	118.78	108.86
1	N	949	HIS	CA-CB-CG	-7.04	106.77	113.80
1	A	949	HIS	N-CA-C	7.02	119.63	110.43
1	L	908	ASP	CA-CB-CG	-7.02	105.58	112.60
1	J	613	PRO	CB-CA-C	-7.02	101.88	111.21
1	D	492	ASP	CA-CB-CG	-7.01	105.59	112.60
1	C	332	PHE	N-CA-C	7.01	119.24	109.15
1	E	687	GLN	CA-C-N	7.01	126.93	119.85
1	E	687	GLN	C-N-CA	7.01	126.93	119.85
1	K	570	TRP	N-CA-C	7.01	119.95	111.40
1	M	607	VAL	N-CA-CB	7.00	125.02	111.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	261	TRP	N-CA-C	7.00	120.14	108.73
1	L	949	HIS	CA-CB-CG	-7.00	106.81	113.80
1	A	871	GLU	CA-C-N	-6.99	114.52	123.19
1	A	871	GLU	C-N-CA	-6.99	114.52	123.19
1	C	421	VAL	CA-C-O	-6.99	116.31	119.94
1	E	97	ALA	N-CA-C	6.99	121.27	108.69
1	K	857	ARG	O-C-N	6.99	129.93	123.50
1	J	127	PHE	CA-CB-CG	-6.99	106.81	113.80
1	I	770	ILE	N-CA-CB	6.99	119.64	112.65
1	A	464	HIS	CA-CB-CG	-6.98	106.82	113.80
1	E	661	LYS	CA-C-O	6.98	125.37	119.71
1	B	385	ASN	CA-CB-CG	-6.98	105.62	112.60
1	A	702	GLN	CA-C-O	6.98	125.36	119.71
1	M	297	ASN	CB-CA-C	-6.98	104.93	111.00
1	D	614	HIS	N-CA-C	-6.98	101.01	110.36
1	L	447	ASP	N-CA-C	6.97	121.02	112.23
1	E	414	ASN	CA-C-N	-6.97	112.04	122.70
1	E	414	ASN	C-N-CA	-6.97	112.04	122.70
1	O	544	ASN	CA-CB-CG	6.97	119.57	112.60
1	P	433	LEU	CA-C-O	6.96	125.04	118.63
1	D	287	ASP	CA-CB-CG	-6.96	105.64	112.60
1	L	493	THR	N-CA-CB	-6.96	100.82	110.29
1	F	787	ALA	CA-C-N	6.95	128.53	119.84
1	F	787	ALA	C-N-CA	6.95	128.53	119.84
1	D	386	ALA	N-CA-CB	-6.95	100.06	111.66
1	M	475	ILE	O-C-N	6.94	128.98	121.83
1	L	840	HIS	N-CA-CB	6.94	121.95	110.85
1	A	221	GLN	N-CA-CB	-6.94	100.60	111.56
1	O	423	MET	CA-C-N	6.94	129.91	120.54
1	O	423	MET	C-N-CA	6.94	129.91	120.54
1	F	147	ASN	CA-CB-CG	6.93	119.53	112.60
1	E	960	SER	N-CA-C	6.93	119.09	108.42
1	A	316	HIS	N-CA-C	6.93	117.18	108.45
1	M	390	SER	O-C-N	6.93	131.80	122.59
1	H	901	GLY	C-N-CD	-6.93	105.36	120.60
1	G	685	LEU	O-C-N	6.92	127.43	121.20
1	I	648	ASP	N-CA-C	6.92	121.74	113.16
1	K	746	ASP	N-CA-C	6.92	117.38	108.24
1	F	938	ARG	CA-C-N	-6.92	111.39	122.53
1	F	938	ARG	C-N-CA	-6.92	111.39	122.53
1	E	512	PHE	CA-CB-CG	-6.92	106.88	113.80
1	M	777	LEU	N-CA-C	-6.91	104.74	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	921	PRO	CB-CA-C	-6.90	102.56	111.46
1	D	1011	ALA	N-CA-C	6.89	119.64	111.71
1	F	479	ASP	O-C-N	6.89	126.06	121.23
1	A	98	PRO	N-CA-CB	6.89	109.83	103.15
1	E	599	ARG	CB-CA-C	-6.89	106.69	116.34
1	G	840	HIS	N-CA-CB	6.89	122.36	111.20
1	H	96	ASP	N-CA-CB	6.89	122.07	111.46
1	K	949	HIS	N-CA-C	6.89	119.85	110.55
1	A	221	GLN	N-CA-C	6.88	119.20	108.96
1	A	356	ARG	N-CA-C	6.87	119.57	107.61
1	A	448	ARG	CA-C-N	-6.87	109.94	122.38
1	A	448	ARG	C-N-CA	-6.87	109.94	122.38
1	B	938	ARG	N-CA-CB	6.87	121.97	110.77
1	H	777	LEU	N-CA-C	-6.87	105.52	114.04
1	H	159	VAL	CA-C-N	-6.86	116.88	122.16
1	H	159	VAL	C-N-CA	-6.86	116.88	122.16
1	N	606	LEU	N-CA-C	-6.86	104.80	113.72
1	G	386	ALA	N-CA-C	6.86	120.16	109.52
1	I	689	GLU	N-CA-C	-6.86	105.44	113.88
1	H	90	TRP	CB-CA-C	6.86	122.33	110.68
1	O	467	ASN	CA-CB-CG	-6.85	105.75	112.60
1	J	340	GLY	CA-C-N	-6.85	113.33	122.99
1	J	340	GLY	C-N-CA	-6.85	113.33	122.99
1	A	147	ASN	N-CA-CB	-6.84	99.18	110.68
1	O	803	PRO	CA-C-N	-6.84	111.88	122.49
1	O	803	PRO	C-N-CA	-6.84	111.88	122.49
1	P	277	GLU	CA-C-N	-6.84	111.33	120.50
1	P	277	GLU	C-N-CA	-6.84	111.33	120.50
1	O	626	PHE	CA-CB-CG	-6.84	106.96	113.80
1	D	855	THR	N-CA-CB	6.84	121.51	110.77
1	B	384	PHE	CA-CB-CG	-6.84	106.96	113.80
1	P	345	ASN	CA-CB-CG	-6.84	105.76	112.60
1	H	966	GLN	N-CA-C	-6.83	103.44	111.03
1	B	541	ALA	CB-CA-C	6.83	119.69	111.22
1	N	487	GLU	N-CA-C	6.83	118.81	111.36
1	G	958	ASN	CA-CB-CG	6.83	119.43	112.60
1	J	729	THR	N-CA-C	6.83	120.80	109.46
1	P	958	ASN	OD1-CG-ND2	-6.83	115.77	122.60
1	E	274	PHE	CA-CB-CG	-6.83	106.97	113.80
1	F	382	ASN	CA-CB-CG	-6.83	105.77	112.60
1	D	634	GLN	N-CA-CB	6.83	122.36	111.17
1	P	452	SER	CA-C-N	-6.83	111.42	120.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	452	SER	C-N-CA	-6.83	111.42	120.91
1	E	300	LEU	N-CA-C	6.82	119.53	110.53
1	O	576	ILE	CB-CA-C	-6.82	101.66	111.34
1	H	606	LEU	N-CA-C	-6.81	104.58	113.17
1	A	787	ALA	CA-C-N	6.81	127.22	119.93
1	A	787	ALA	C-N-CA	6.81	127.22	119.93
1	F	533	LEU	N-CA-C	6.81	119.62	108.52
1	H	447	ASP	N-CA-C	6.81	121.82	112.90
1	A	881	ARG	NE-CZ-NH2	-6.80	113.08	119.20
1	H	390	SER	CA-C-N	6.80	133.95	121.70
1	H	390	SER	C-N-CA	6.80	133.95	121.70
1	D	977	HIS	CA-CB-CG	-6.80	107.00	113.80
1	M	209	PHE	N-CA-C	6.79	121.59	113.16
1	P	310	ARG	N-CA-CB	6.79	121.50	110.43
1	C	614	HIS	N-CA-CB	6.79	117.16	109.49
1	O	614	HIS	N-CA-C	-6.78	101.57	110.39
1	K	773	LYS	N-CA-C	6.78	120.71	109.46
1	P	737	ILE	N-CA-CB	6.78	120.70	111.21
1	H	453	VAL	N-CA-CB	6.78	118.34	110.82
1	O	90	TRP	N-CA-C	6.78	120.65	112.38
1	L	713	HIS	CA-C-N	-6.77	114.23	122.90
1	L	713	HIS	C-N-CA	-6.77	114.23	122.90
1	H	644	PHE	N-CA-C	6.77	121.94	112.93
1	G	931	PHE	CB-CA-C	6.76	117.63	109.31
1	N	635	THR	N-CA-C	6.76	119.75	108.73
1	O	833	ALA	N-CA-C	6.76	117.42	107.88
1	F	511	PRO	N-CA-CB	6.76	107.15	102.35
1	H	614	HIS	N-CA-C	-6.75	102.21	110.31
1	J	722	LEU	N-CA-C	6.75	118.52	111.03
1	J	721	ARG	CA-C-N	6.74	129.80	120.63
1	J	721	ARG	C-N-CA	6.74	129.80	120.63
1	D	991	MET	CA-C-N	6.74	126.50	120.10
1	D	991	MET	C-N-CA	6.74	126.50	120.10
1	P	776	LEU	N-CA-C	6.74	120.39	109.40
1	D	95	TYR	N-CA-CB	6.74	119.98	109.94
1	K	150	PHE	O-C-N	6.74	129.47	123.41
1	K	79	PRO	N-CA-C	-6.73	103.84	113.47
1	H	424	ASN	CA-CB-CG	-6.73	105.87	112.60
1	F	144	ASP	N-CA-C	6.72	120.36	111.75
1	G	218	PRO	CB-CA-C	-6.72	103.02	111.56
1	G	892	ALA	N-CA-C	6.72	118.52	110.19
1	P	996	ASP	N-CA-C	-6.71	105.07	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	613	PRO	N-CA-C	6.71	121.73	111.19
1	M	113	PHE	CA-CB-CG	-6.71	107.09	113.80
1	L	593	GLY	N-CA-C	-6.71	105.97	115.43
1	M	63	PHE	O-C-N	6.71	127.07	121.84
1	H	581	ASN	CA-CB-CG	-6.70	105.90	112.60
1	L	450	HIS	CA-C-O	6.70	124.62	119.46
1	B	118	ASN	CA-CB-CG	6.70	119.30	112.60
1	J	467	ASN	CA-CB-CG	-6.70	105.90	112.60
1	L	977	HIS	CA-CB-CG	-6.70	107.10	113.80
1	M	164	ASP	N-CA-CB	6.70	121.81	110.49
1	D	571	VAL	CB-CA-C	-6.70	101.26	110.90
1	D	686	PRO	CB-CA-C	-6.70	103.06	111.56
1	A	644	PHE	N-CA-C	6.69	121.86	113.43
1	N	770	ILE	N-CA-CB	6.69	120.67	112.10
1	C	360	HIS	CA-C-N	6.69	126.95	119.32
1	C	360	HIS	C-N-CA	6.69	126.95	119.32
1	D	914	CYS	N-CA-CB	6.69	121.53	110.63
1	K	402	CYS	N-CA-CB	6.69	120.52	110.22
1	O	635	THR	N-CA-C	6.69	119.84	109.07
1	A	731	PRO	N-CA-C	-6.68	100.73	111.03
1	J	619	GLU	N-CA-C	-6.68	103.24	111.40
1	L	316	HIS	CA-CB-CG	-6.68	107.12	113.80
1	L	746	ASP	N-CA-C	6.68	117.45	108.23
1	B	166	ARG	NE-CZ-NH2	-6.68	113.19	119.20
1	O	385	ASN	CA-CB-CG	6.68	119.28	112.60
1	I	886	CYS	CA-C-N	-6.68	114.16	122.84
1	I	886	CYS	C-N-CA	-6.68	114.16	122.84
1	K	584	PRO	CB-CA-C	-6.67	105.33	111.40
1	E	453	VAL	N-CA-CB	6.67	118.42	110.95
1	N	746	ASP	CA-CB-CG	-6.67	105.93	112.60
1	L	151	HIS	CA-CB-CG	-6.67	107.13	113.80
1	E	612	THR	CA-C-N	6.67	126.65	119.78
1	E	612	THR	C-N-CA	6.67	126.65	119.78
1	A	744	GLU	O-C-N	6.67	129.19	122.12
1	I	735	HIS	CA-CB-CG	-6.67	107.14	113.80
1	K	385	ASN	CB-CA-C	-6.67	99.11	110.24
1	H	244	VAL	N-CA-C	6.66	117.48	107.75
1	J	655	MET	N-CA-C	6.65	120.37	109.06
1	N	147	ASN	N-CA-CB	-6.65	100.12	110.57
1	N	351	ILE	N-CA-C	6.65	117.03	108.12
1	J	688	PRO	CB-CA-C	-6.65	102.27	110.98
1	L	512	PHE	CA-CB-CG	-6.65	107.15	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1004	SER	N-CA-C	6.64	120.69	110.20
1	E	5	ASP	CA-C-O	6.64	127.69	119.05
1	M	186	VAL	N-CA-C	6.64	118.15	109.58
1	F	949	HIS	N-CA-C	6.62	119.26	110.53
1	L	685	LEU	CA-C-O	6.62	125.08	119.66
1	A	209	PHE	N-CA-C	6.61	120.95	113.02
1	D	735	HIS	CA-CB-CG	-6.61	107.19	113.80
1	O	272	ALA	N-CA-C	6.61	114.08	108.13
1	H	38	ASN	N-CA-CB	6.61	120.81	110.71
1	I	949	HIS	N-CA-C	6.60	119.25	110.53
1	I	329	ASP	CA-CB-CG	6.60	119.20	112.60
1	L	725	ASN	CA-CB-CG	-6.60	106.00	112.60
1	F	583	ASN	CB-CA-C	6.59	116.70	110.17
1	F	629	PHE	N-CA-C	6.59	120.43	109.95
1	P	316	HIS	CA-CB-CG	-6.59	107.21	113.80
1	H	935	ASN	N-CA-C	6.59	116.56	107.73
1	N	561	ARG	NE-CZ-NH2	-6.59	113.27	119.20
1	A	533	LEU	CB-CA-C	6.58	121.11	109.72
1	O	89	ASN	CA-CB-CG	6.58	119.19	112.60
1	D	213	SER	N-CA-C	6.58	118.77	108.96
1	B	545	SER	N-CA-C	6.58	116.68	108.19
1	F	735	HIS	CA-CB-CG	-6.58	107.22	113.80
1	H	480	PRO	CA-C-N	-6.58	110.47	122.38
1	H	480	PRO	C-N-CA	-6.58	110.47	122.38
1	M	996	ASP	N-CA-C	-6.57	104.20	111.82
1	J	137	GLY	N-CA-C	6.57	118.74	112.04
1	A	412	GLU	N-CA-C	6.57	119.11	108.34
1	A	661	LYS	CA-C-N	6.57	128.31	120.23
1	A	661	LYS	C-N-CA	6.57	128.31	120.23
1	F	297	ASN	CA-CB-CG	-6.56	106.04	112.60
1	L	685	LEU	CA-C-N	6.56	128.04	119.84
1	L	685	LEU	C-N-CA	6.56	128.04	119.84
1	M	770	ILE	N-CA-CB	6.56	120.16	112.35
1	C	189	LEU	N-CA-CB	6.55	122.28	111.08
1	B	791	ASN	N-CA-CB	6.55	120.31	110.22
1	N	481	SER	N-CA-C	6.55	119.41	111.82
1	P	448	ARG	CA-C-N	-6.54	111.86	122.26
1	P	448	ARG	C-N-CA	-6.54	111.86	122.26
1	N	221	GLN	N-CA-C	6.54	118.88	109.14
1	F	193	ASP	N-CA-C	-6.53	104.16	111.28
1	F	914	CYS	N-CA-CB	6.53	121.21	110.69
1	K	422	PRO	N-CA-CB	6.53	109.78	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	386	ALA	CA-C-O	6.53	128.22	121.23
1	C	714	ILE	CB-CA-C	-6.52	101.44	110.96
1	K	638	VAL	N-CA-CB	6.52	117.64	110.53
1	D	127	PHE	N-CA-C	6.52	117.18	108.38
1	B	781	ARG	N-CA-C	6.52	119.62	109.52
1	O	776	LEU	N-CA-C	6.51	119.52	108.90
1	F	545	SER	N-CA-C	6.51	117.06	108.07
1	H	404	ARG	N-CA-C	6.51	119.69	111.69
1	M	859	ASP	N-CA-C	6.50	120.24	109.96
1	D	363	HIS	CA-CB-CG	-6.50	107.30	113.80
1	L	287	ASP	CA-CB-CG	-6.50	106.10	112.60
1	E	31	PRO	N-CA-CB	6.50	109.38	103.08
1	G	903	GLN	N-CA-C	6.50	119.32	110.55
1	C	545	SER	N-CA-C	6.50	117.03	108.07
1	I	78	LEU	N-CA-CB	6.50	118.00	109.55
1	K	986	ILE	N-CA-CB	6.50	119.65	111.46
1	M	823	LEU	N-CA-C	-6.50	105.65	113.97
1	C	770	ILE	N-CA-CB	6.50	119.14	112.65
1	A	178	ARG	CA-C-N	-6.49	112.14	121.42
1	A	178	ARG	C-N-CA	-6.49	112.14	121.42
1	C	90	TRP	N-CA-CB	6.49	119.66	110.12
1	D	455	ILE	CA-C-O	-6.49	114.40	121.28
1	I	516	PRO	CB-CA-C	-6.48	103.09	111.39
1	B	1011	ALA	N-CA-C	6.48	119.17	111.71
1	D	423	MET	CA-C-N	6.48	134.91	121.94
1	D	423	MET	C-N-CA	6.48	134.91	121.94
1	A	469	ASP	CA-CB-CG	-6.48	106.12	112.60
1	M	329	ASP	CA-CB-CG	6.48	119.08	112.60
1	P	123	TYR	CB-CA-C	-6.48	97.47	110.30
1	E	335	VAL	CB-CA-C	-6.47	102.12	110.98
1	N	111	PRO	CB-CA-C	-6.47	103.03	110.92
1	A	360	HIS	CA-C-N	6.47	126.69	119.32
1	A	360	HIS	C-N-CA	6.47	126.69	119.32
1	I	118	ASN	CB-CA-C	6.46	123.70	111.29
1	L	770	ILE	N-CA-C	-6.46	96.38	107.24
1	A	97	ALA	N-CA-C	6.46	117.94	109.93
1	N	840	HIS	CA-CB-CG	6.46	120.26	113.80
1	B	383	ASN	CA-CB-CG	-6.46	106.14	112.60
1	H	98	PRO	N-CA-CB	6.46	108.97	103.35
1	B	427	THR	N-CA-C	6.45	120.01	111.75
1	C	114	VAL	N-CA-CB	-6.45	106.19	111.67
1	M	100	TYR	N-CA-C	6.45	119.35	107.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	113	PHE	CA-CB-CG	-6.45	107.35	113.80
1	G	394	ASN	CA-CB-CG	6.45	119.05	112.60
1	J	927	THR	CA-C-N	6.45	127.90	119.84
1	J	927	THR	C-N-CA	6.45	127.90	119.84
1	I	836	ILE	N-CA-CB	6.45	121.18	110.86
1	P	305	ILE	CA-C-N	6.45	127.90	119.84
1	P	305	ILE	C-N-CA	6.45	127.90	119.84
1	K	916	ASP	N-CA-C	6.45	116.50	108.19
1	L	511	PRO	CB-CA-C	-6.45	104.33	113.09
1	J	209	PHE	N-CA-C	6.44	121.15	113.16
1	B	5	ASP	CA-C-O	6.44	126.13	119.05
1	I	433	LEU	CA-C-O	6.44	124.25	118.33
1	M	391	HIS	N-CA-C	6.43	126.43	113.31
1	C	1014	TYR	CA-CB-CG	-6.43	102.32	113.90
1	C	421	VAL	CB-CA-C	-6.43	103.67	110.16
1	H	556	PHE	N-CA-CB	6.42	119.51	109.94
1	G	506	VAL	N-CA-C	6.42	116.58	110.42
1	P	607	VAL	N-CA-CB	6.42	120.48	111.05
1	C	118	ASN	CA-C-O	6.42	127.37	120.63
1	N	441	THR	N-CA-C	6.42	117.94	111.07
1	F	972	HIS	CA-CB-CG	6.41	120.21	113.80
1	E	787	ALA	CA-C-N	6.41	127.86	119.84
1	E	787	ALA	C-N-CA	6.41	127.86	119.84
1	I	18	ASN	CA-C-N	6.41	126.04	119.56
1	I	18	ASN	C-N-CA	6.41	126.04	119.56
1	P	187	MET	CB-CA-C	6.41	120.81	109.72
1	H	908	ASP	CA-CB-CG	-6.41	106.19	112.60
1	H	418	HIS	CA-CB-CG	-6.41	107.39	113.80
1	G	147	ASN	N-CA-CB	-6.40	99.93	110.68
1	O	704	ASN	N-CA-C	6.40	119.96	109.72
1	G	4	THR	N-CA-C	-6.40	105.76	112.93
1	B	209	PHE	N-CA-C	6.40	121.09	113.16
1	A	336	ARG	CB-CA-C	-6.40	98.35	109.86
1	E	482	ARG	O-C-N	6.40	127.30	121.80
1	A	267	VAL	CB-CA-C	6.39	116.69	111.06
1	L	557	ARG	N-CA-C	6.39	120.34	112.54
1	P	660	GLY	N-CA-C	-6.39	106.26	115.27
1	A	90	TRP	N-CA-CB	6.39	119.51	110.12
1	L	942	ARG	CB-CA-C	6.39	120.10	109.56
1	P	429	ASP	CA-C-N	6.39	127.82	119.84
1	P	429	ASP	C-N-CA	6.39	127.82	119.84
1	I	903	GLN	N-CA-C	6.38	118.96	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	931	PHE	CB-CA-C	6.38	117.26	110.17
1	A	150	PHE	N-CA-C	6.38	118.22	108.52
1	D	591	ASP	CA-CB-CG	6.38	118.98	112.60
1	B	612	THR	N-CA-CB	6.38	120.63	110.11
1	C	800	ARG	CA-C-N	-6.38	114.74	122.90
1	C	800	ARG	C-N-CA	-6.38	114.74	122.90
1	A	516	PRO	CB-CA-C	-6.37	103.07	111.23
1	C	492	ASP	CA-CB-CG	-6.37	106.23	112.60
1	H	164	ASP	N-CA-CB	6.37	121.26	110.49
1	M	534	ILE	N-CA-CB	6.37	120.62	112.34
1	H	896	ASN	CA-CB-CG	6.37	118.97	112.60
1	K	424	ASN	CA-CB-CG	6.37	118.97	112.60
1	K	977	HIS	CA-CB-CG	-6.37	107.43	113.80
1	M	382	ASN	CA-CB-CG	-6.37	106.23	112.60
1	P	895	VAL	CA-C-N	-6.37	112.69	122.62
1	P	895	VAL	C-N-CA	-6.37	112.69	122.62
1	D	980	GLU	N-CA-C	6.37	118.78	111.02
1	K	385	ASN	CA-CB-CG	-6.37	106.23	112.60
1	L	790	ASP	CA-CB-CG	-6.37	106.23	112.60
1	P	446	ARG	N-CA-C	6.37	118.30	111.36
1	G	855	THR	CA-CB-OG1	6.36	119.14	109.60
1	M	948	PRO	N-CA-C	-6.36	105.23	113.57
1	D	433	LEU	CA-C-O	6.36	124.48	118.63
1	E	440	VAL	N-CA-C	6.36	116.99	110.82
1	K	595	THR	O-C-N	6.36	126.80	121.84
1	C	980	GLU	N-CA-C	6.36	117.90	110.97
1	D	448	ARG	CA-C-N	-6.35	111.63	122.56
1	D	448	ARG	C-N-CA	-6.35	111.63	122.56
1	E	232	ASN	CA-CB-CG	-6.35	106.25	112.60
1	F	422	PRO	N-CA-CB	6.35	109.59	102.60
1	I	954	ASP	CA-CB-CG	-6.35	106.25	112.60
1	G	97	ALA	N-CA-C	6.35	118.87	110.36
1	P	402	CYS	CA-C-N	6.35	128.69	120.44
1	P	402	CYS	C-N-CA	6.35	128.69	120.44
1	I	385	ASN	CB-CA-C	-6.35	98.13	109.24
1	P	312	VAL	N-CA-C	6.35	117.00	108.11
1	O	949	HIS	N-CA-C	6.35	118.98	110.35
1	P	212	VAL	N-CA-CB	6.34	121.38	111.99
1	H	423	MET	CA-C-N	6.34	129.29	120.29
1	H	423	MET	C-N-CA	6.34	129.29	120.29
1	H	469	ASP	CA-CB-CG	-6.34	106.26	112.60
1	M	433	LEU	CA-C-O	6.34	124.40	118.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	178	ARG	CA-C-N	-6.34	113.97	122.72
1	O	178	ARG	C-N-CA	-6.34	113.97	122.72
1	O	395	HIS	CA-C-O	6.34	125.03	119.71
1	F	833	ALA	N-CA-C	6.34	116.82	107.88
1	G	176	PHE	N-CA-CB	6.34	119.97	110.53
1	M	1022	GLN	N-CA-C	6.34	119.07	109.63
1	M	1004	SER	N-CA-CB	6.33	119.42	110.36
1	G	606	LEU	CA-C-O	6.33	126.37	119.15
1	H	649	ASN	CA-C-N	-6.33	113.85	122.77
1	H	649	ASN	C-N-CA	-6.33	113.85	122.77
1	G	856	TYR	N-CA-CB	6.32	120.95	110.52
1	L	96	ASP	CA-CB-CG	6.32	118.92	112.60
1	P	96	ASP	N-CA-CB	6.32	121.55	111.56
1	G	746	ASP	N-CA-C	6.32	116.20	107.73
1	N	569	ASP	CA-CB-CG	6.32	118.92	112.60
1	P	330	VAL	CA-C-N	6.32	128.20	122.20
1	P	330	VAL	C-N-CA	6.32	128.20	122.20
1	A	874	SER	CA-C-N	-6.31	112.17	122.65
1	A	874	SER	C-N-CA	-6.31	112.17	122.65
1	D	150	PHE	N-CA-C	6.31	118.14	108.42
1	L	297	ASN	O-C-N	6.31	124.43	121.53
1	D	183	ARG	N-CA-C	6.31	118.69	108.34
1	H	441	THR	N-CA-C	6.31	117.82	111.07
1	O	980	GLU	N-CA-C	6.31	121.72	111.37
1	A	746	ASP	N-CA-C	6.30	116.18	107.73
1	M	118	ASN	CA-CB-CG	6.30	118.90	112.60
1	D	274	PHE	N-CA-C	6.30	118.00	110.19
1	L	492	ASP	CA-C-N	6.30	132.16	120.95
1	L	492	ASP	C-N-CA	6.30	132.16	120.95
1	M	980	GLU	N-CA-C	6.30	118.67	111.11
1	B	648	ASP	N-CA-C	6.29	120.81	113.20
1	G	40	GLU	CB-CA-C	6.29	121.36	110.79
1	C	90	TRP	CB-CA-C	6.29	121.23	110.79
1	A	512	PHE	CA-CB-CG	-6.29	107.51	113.80
1	H	512	PHE	CA-CB-CG	-6.29	107.51	113.80
1	L	531	ARG	CD-NE-CZ	-6.29	115.59	124.40
1	H	449	ASN	N-CA-C	6.29	120.15	112.23
1	K	584	PRO	N-CA-CB	6.29	107.44	103.23
1	I	704	ASN	CA-CB-CG	-6.29	106.31	112.60
1	O	491	ALA	N-CA-C	6.29	120.74	113.38
1	C	1018	LEU	N-CA-CB	-6.28	100.62	111.55
1	M	447	ASP	CB-CA-C	6.28	120.83	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	165	SER	N-CA-C	6.28	118.13	111.28
1	O	730	LEU	CA-C-N	6.28	126.30	119.89
1	O	730	LEU	C-N-CA	6.28	126.30	119.89
1	A	949	HIS	CA-CB-CG	-6.28	107.52	113.80
1	B	506	VAL	N-CA-C	6.28	117.06	110.72
1	N	363	HIS	CA-CB-CG	-6.27	107.53	113.80
1	I	1018	LEU	N-CA-CB	-6.27	99.86	111.53
1	M	619	GLU	N-CA-C	-6.27	104.13	110.97
1	D	625	GLN	N-CA-CB	6.27	119.26	110.04
1	E	411	ASP	CA-CB-CG	-6.27	106.33	112.60
1	G	118	ASN	CA-CB-CG	6.27	118.87	112.60
1	J	977	HIS	CA-CB-CG	-6.27	107.53	113.80
1	G	781	ARG	N-CA-C	6.26	119.23	109.52
1	E	611	ARG	CD-NE-CZ	6.26	133.16	124.40
1	G	239	VAL	CB-CA-C	-6.26	101.97	110.42
1	H	38	ASN	CB-CA-C	6.26	119.49	110.79
1	E	927	THR	O-C-N	6.26	128.25	121.12
1	P	362	LEU	CA-C-O	6.26	127.46	120.89
1	E	209	PHE	N-CA-C	6.26	120.91	113.28
1	B	737	ILE	N-CA-CB	6.25	119.96	111.21
1	I	74	LEU	N-CA-C	6.25	118.90	111.33
1	M	644	PHE	N-CA-C	6.25	121.00	112.68
1	A	878	HIS	CA-CB-CG	-6.25	107.55	113.80
1	L	424	ASN	CB-CA-C	-6.25	97.98	110.42
1	P	672	VAL	N-CA-C	6.25	116.86	108.11
1	D	300	LEU	N-CA-C	6.25	118.84	110.35
1	L	122	CYS	N-CA-C	6.25	118.99	109.62
1	F	685	LEU	CA-C-N	6.25	126.26	119.89
1	F	685	LEU	C-N-CA	6.25	126.26	119.89
1	M	274	PHE	CA-CB-CG	-6.25	107.56	113.80
1	M	872	VAL	N-CA-C	6.25	116.91	108.17
1	P	520	ILE	N-CA-C	6.24	118.85	111.05
1	M	512	PHE	CA-CB-CG	-6.24	107.56	113.80
1	O	770	ILE	N-CA-CB	6.24	121.52	111.23
1	E	186	VAL	CB-CA-C	-6.23	102.44	110.98
1	P	75	GLU	CA-C-N	-6.23	112.83	122.87
1	P	75	GLU	C-N-CA	-6.23	112.83	122.87
1	F	339	ASN	N-CA-CB	-6.23	99.96	110.49
1	D	232	ASN	CA-CB-CG	-6.23	106.37	112.60
1	L	802	ASP	CA-C-N	6.23	127.62	119.84
1	L	802	ASP	C-N-CA	6.23	127.62	119.84
1	L	446	ARG	N-CA-C	6.22	117.94	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	414	ASN	CA-CB-CG	6.22	118.82	112.60
1	A	581	ASN	CA-CB-CG	-6.22	106.38	112.60
1	O	593	GLY	N-CA-C	-6.22	106.83	114.92
1	C	870	VAL	N-CA-C	6.22	117.55	108.53
1	G	487	GLU	N-CA-C	6.22	118.14	111.36
1	E	464	HIS	N-CA-CB	6.22	120.29	110.84
1	N	685	LEU	N-CA-C	6.22	118.47	110.39
1	J	958	ASN	CA-CB-CG	6.21	118.81	112.60
1	C	824	GLN	N-CA-CB	-6.21	99.99	110.49
1	I	353	GLY	N-CA-C	6.21	120.17	111.10
1	K	31	PRO	N-CA-C	-6.21	103.12	110.70
1	M	644	PHE	CA-CB-CG	-6.21	107.59	113.80
1	F	970	THR	CA-CB-OG1	-6.21	100.29	109.60
1	P	369	GLU	N-CA-CB	6.21	120.27	109.72
1	F	194	GLY	CA-C-N	6.21	128.88	120.38
1	F	194	GLY	C-N-CA	6.21	128.88	120.38
1	A	510	GLN	CA-C-N	6.21	127.60	119.84
1	A	510	GLN	C-N-CA	6.21	127.60	119.84
1	H	999	TRP	CA-C-O	6.21	125.29	118.65
1	D	19	PRO	N-CA-C	-6.20	106.11	113.86
1	L	784	PHE	CA-CB-CG	-6.20	107.61	113.80
1	H	927	THR	CA-C-N	6.19	127.58	119.84
1	H	927	THR	C-N-CA	6.19	127.58	119.84
1	L	754	LYS	N-CA-C	6.19	119.74	109.46
1	O	433	LEU	CA-C-O	6.19	124.34	118.34
1	P	1004	SER	N-CA-CB	6.19	119.08	110.17
1	J	684	GLU	N-CA-CB	6.18	119.17	109.83
1	B	563	GLN	N-CA-C	6.18	120.13	112.59
1	M	188	VAL	CB-CA-C	-6.18	104.61	111.35
1	C	471	LEU	N-CA-C	6.18	118.98	111.82
1	P	129	VAL	N-CA-C	6.18	116.91	107.77
1	K	150	PHE	CA-C-N	6.17	132.81	122.87
1	K	150	PHE	C-N-CA	6.17	132.81	122.87
1	P	14	ARG	N-CA-C	-6.17	103.69	110.91
1	P	612	THR	CA-C-N	6.17	127.55	119.84
1	P	612	THR	C-N-CA	6.17	127.55	119.84
1	D	34	ALA	N-CA-C	-6.17	104.72	112.93
1	N	31	PRO	N-CA-CB	6.17	109.06	103.08
1	O	650	GLU	N-CA-C	6.17	119.18	108.76
1	H	832	ASP	CA-CB-CG	-6.16	106.44	112.60
1	F	297	ASN	O-C-N	6.16	124.36	121.53
1	P	218	PRO	N-CA-CB	6.16	109.04	103.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	785	THR	N-CA-C	6.16	117.24	108.74
1	C	114	VAL	CB-CA-C	6.15	119.71	110.97
1	G	151	HIS	CA-CB-CG	-6.15	107.65	113.80
1	B	903	GLN	N-CA-C	6.15	118.65	110.53
1	C	932	PRO	O-C-N	6.15	130.70	122.89
1	I	4	THR	N-CA-C	-6.15	104.13	111.69
1	M	520	ILE	N-CA-CB	6.15	118.15	110.47
1	C	382	ASN	CA-CB-CG	-6.14	106.45	112.60
1	L	100	TYR	N-CA-CB	6.14	120.82	110.69
1	D	113	PHE	N-CA-C	6.14	118.64	110.53
1	J	1004	SER	N-CA-CB	6.14	118.79	110.38
1	C	583	ASN	CA-C-N	6.14	126.10	119.78
1	C	583	ASN	C-N-CA	6.14	126.10	119.78
1	M	105	TYR	CA-C-N	6.14	125.84	119.82
1	M	105	TYR	C-N-CA	6.14	125.84	119.82
1	O	464	HIS	CA-CB-CG	-6.14	107.66	113.80
1	B	210	ARG	N-CA-CB	6.14	120.92	111.22
1	E	894	ARG	N-CA-C	6.14	119.87	110.36
1	E	835	LEU	N-CA-C	6.13	119.28	107.44
1	P	113	PHE	N-CA-C	6.13	119.51	109.76
1	G	404	ARG	N-CA-C	6.13	118.88	111.40
1	A	306	PRO	N-CA-CB	6.13	106.54	102.25
1	M	559	TYR	CB-CA-C	-6.13	103.37	110.17
1	C	460	ASN	N-CA-C	6.13	118.73	109.23
1	G	988	GLY	N-CA-C	-6.12	105.08	112.49
1	J	395	HIS	CA-C-O	6.12	124.17	119.46
1	D	385	ASN	CA-CB-CG	6.12	118.72	112.60
1	P	337	ILE	N-CA-CB	6.12	118.84	111.31
1	I	802	ASP	O-C-N	6.12	127.35	120.68
1	P	429	ASP	O-C-N	6.12	126.52	121.44
1	D	757	GLN	N-CA-C	6.11	118.48	108.52
1	K	110	ASN	O-C-N	6.11	125.65	121.19
1	M	410	VAL	N-CA-C	-6.11	99.62	108.17
1	L	571	VAL	N-CA-C	6.10	118.17	108.89
1	I	395	HIS	CA-C-N	6.10	127.47	119.84
1	I	395	HIS	C-N-CA	6.10	127.47	119.84
1	E	429	ASP	CA-C-N	6.10	127.46	119.84
1	E	429	ASP	C-N-CA	6.10	127.46	119.84
1	I	742	THR	N-CA-C	6.10	118.35	107.80
1	M	195	SER	N-CA-C	-6.10	104.26	111.03
1	D	235	PHE	CA-CB-CG	-6.10	107.70	113.80
1	F	17	GLU	N-CA-CB	6.10	120.90	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	881	ARG	CD-NE-CZ	-6.10	115.86	124.40
1	L	914	CYS	CB-CA-C	6.10	120.35	109.38
1	C	385	ASN	N-CA-CB	-6.09	101.57	110.40
1	I	446	ARG	N-CA-C	6.09	117.72	111.14
1	L	221	GLN	N-CA-CB	-6.09	101.14	111.31
1	L	261	TRP	N-CA-C	6.09	118.83	108.90
1	M	423	MET	N-CA-CB	6.09	119.20	110.06
1	P	418	HIS	CA-CB-CG	-6.09	107.71	113.80
1	H	559	TYR	CA-C-N	6.09	125.57	119.24
1	H	559	TYR	C-N-CA	6.09	125.57	119.24
1	L	770	ILE	N-CA-CB	6.09	119.90	112.10
1	L	996	ASP	CA-CB-CG	-6.09	106.51	112.60
1	C	500	CYS	CA-C-N	-6.09	114.49	120.52
1	C	500	CYS	C-N-CA	-6.09	114.49	120.52
1	N	13	ARG	N-CA-C	6.09	118.88	111.82
1	N	908	ASP	CA-CB-CG	-6.09	106.51	112.60
1	L	700	VAL	N-CA-CB	6.08	117.35	110.72
1	E	719	GLN	N-CA-C	6.08	119.40	109.24
1	H	215	LEU	CB-CA-C	6.08	120.98	109.37
1	D	870	VAL	N-CA-C	6.08	118.72	109.12
1	J	287	ASP	CA-CB-CG	-6.08	106.52	112.60
1	K	777	LEU	N-CA-C	-6.08	105.69	113.23
1	E	113	PHE	N-CA-C	6.08	119.07	109.96
1	E	322	LEU	N-CA-C	6.08	119.17	110.24
1	K	531	ARG	N-CA-C	6.07	119.71	109.87
1	F	337	ILE	CA-C-N	-6.07	112.21	123.01
1	F	337	ILE	C-N-CA	-6.07	112.21	123.01
1	B	90	TRP	CB-CA-C	6.07	121.85	110.63
1	I	1002	SER	N-CA-C	6.07	119.99	112.59
1	K	210	ARG	N-CA-CB	6.07	120.15	111.05
1	L	758	PHE	CB-CA-C	-6.07	101.04	111.23
1	C	424	ASN	CB-CA-C	-6.06	101.11	110.81
1	I	127	PHE	CA-CB-CG	-6.06	107.74	113.80
1	M	772	ASP	CA-CB-CG	-6.06	106.54	112.60
1	B	908	ASP	CA-CB-CG	-6.06	106.54	112.60
1	I	221	GLN	N-CA-CB	-6.06	101.96	111.05
1	J	360	HIS	CA-C-N	6.06	125.95	119.28
1	J	360	HIS	C-N-CA	6.06	125.95	119.28
1	L	278	ILE	CA-C-N	-6.06	114.44	121.71
1	L	278	ILE	C-N-CA	-6.06	114.44	121.71
1	M	118	ASN	CA-C-N	6.06	127.42	119.84
1	M	118	ASN	C-N-CA	6.06	127.42	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	113	PHE	CA-CB-CG	-6.06	107.74	113.80
1	O	447	ASP	N-CA-C	6.06	121.60	113.72
1	C	18	ASN	CA-CB-CG	-6.06	106.54	112.60
1	G	932	PRO	N-CA-C	6.06	121.80	111.68
1	G	395	HIS	CA-C-N	6.06	127.41	119.84
1	G	395	HIS	C-N-CA	6.06	127.41	119.84
1	M	395	HIS	O-C-N	6.05	126.46	121.31
1	D	948	PRO	CB-CA-C	-6.05	102.84	111.68
1	E	830	LEU	N-CA-CB	6.05	119.80	110.60
1	M	516	PRO	CB-CA-C	-6.05	103.88	111.56
1	M	909	ARG	N-CA-CB	6.05	120.72	110.49
1	P	405	TYR	N-CA-C	6.05	117.68	111.14
1	B	114	VAL	CA-C-N	6.05	125.99	119.76
1	B	114	VAL	C-N-CA	6.05	125.99	119.76
1	I	34	ALA	N-CA-C	-6.05	106.88	114.56
1	N	1007	PHE	CA-CB-CG	-6.04	107.75	113.80
1	E	113	PHE	CA-CB-CG	-6.04	107.76	113.80
1	P	612	THR	O-C-N	6.04	128.53	121.10
1	E	626	PHE	CA-CB-CG	-6.04	107.76	113.80
1	I	114	VAL	N-CA-CB	-6.04	102.75	111.21
1	E	667	GLU	N-CA-CB	6.04	121.25	110.80
1	I	185	ALA	N-CA-CB	6.04	120.32	110.90
1	P	67	GLU	N-CA-CB	-6.04	100.28	110.49
1	D	920	LEU	CA-C-N	6.04	125.80	119.76
1	D	920	LEU	C-N-CA	6.04	125.80	119.76
1	C	155	ASN	CA-CB-CG	-6.03	106.57	112.60
1	K	66	PRO	CB-CA-C	-6.03	102.67	112.62
1	N	986	ILE	O-C-N	6.03	128.40	122.97
1	E	575	LEU	N-CA-C	6.03	118.95	108.76
1	I	236	SER	N-CA-CB	6.03	119.50	110.22
1	A	788	PRO	N-CA-CB	6.03	108.61	103.19
1	E	448	ARG	CA-C-N	-6.03	111.84	122.26
1	E	448	ARG	C-N-CA	-6.03	111.84	122.26
1	B	931	PHE	CB-CA-C	6.02	116.13	110.17
1	E	365	GLN	CB-CG-CD	-6.02	102.36	112.60
1	G	773	LYS	N-CA-C	6.02	118.46	109.25
1	I	224	ASP	CA-CB-CG	6.02	118.62	112.60
1	I	758	PHE	CB-CA-C	-6.02	103.81	111.70
1	G	383	ASN	CA-CB-CG	-6.02	106.58	112.60
1	H	868	VAL	N-CA-C	6.02	117.26	108.53
1	P	735	HIS	N-CA-C	-6.02	106.48	113.88
1	N	310	ARG	N-CA-CB	6.02	120.38	110.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	221	GLN	N-CA-CB	-6.01	102.20	111.46
1	J	166	ARG	N-CA-C	6.01	120.90	113.50
1	M	529	GLU	N-CA-C	6.01	119.20	110.42
1	A	172	ASP	CA-CB-CG	-6.01	106.59	112.60
1	J	209	PHE	CA-CB-CG	-6.01	107.79	113.80
1	O	429	ASP	N-CA-C	6.01	118.17	109.04
1	D	244	VAL	N-CA-C	6.01	117.13	108.48
1	D	347	LYS	CA-C-N	6.01	126.32	119.83
1	D	347	LYS	C-N-CA	6.01	126.32	119.83
1	F	958	ASN	CA-CB-CG	6.01	118.61	112.60
1	L	150	PHE	CA-C-N	6.00	131.64	122.93
1	L	150	PHE	C-N-CA	6.00	131.64	122.93
1	N	547	GLY	CA-C-N	-6.00	114.98	123.08
1	N	547	GLY	C-N-CA	-6.00	114.98	123.08
1	P	581	ASN	N-CA-C	-6.00	105.92	113.18
1	O	348	PRO	CB-CA-C	-6.00	106.83	111.87
1	D	424	ASN	CA-CB-CG	5.99	118.59	112.60
1	H	802	ASP	CA-C-N	5.99	127.33	119.84
1	H	802	ASP	C-N-CA	5.99	127.33	119.84
1	N	100	TYR	N-CA-CB	5.99	120.57	110.69
1	O	429	ASP	CB-CA-C	5.99	116.67	109.85
1	P	567	VAL	N-CA-CB	5.99	118.46	110.26
1	C	948	PRO	N-CA-C	-5.99	106.30	114.80
1	I	932	PRO	N-CA-CB	5.99	108.90	103.33
1	D	949	HIS	CB-CA-C	-5.98	99.28	109.51
1	C	687	GLN	O-C-N	5.98	126.80	121.36
1	P	164	ASP	N-CA-CB	5.98	120.60	110.49
1	I	501	PRO	CB-CA-C	-5.98	102.19	111.40
1	P	850	PHE	N-CA-C	5.98	117.67	109.18
1	A	793	ILE	N-CA-C	5.98	117.01	111.45
1	K	562	LEU	N-CA-C	-5.98	98.78	108.41
1	P	29	ALA	N-CA-C	5.98	117.76	110.41
1	D	737	ILE	N-CA-CB	5.97	119.58	111.21
1	E	111	PRO	CA-C-O	5.97	125.20	120.90
1	P	101	THR	N-CA-CB	5.97	120.01	111.05
1	G	525	SER	CA-C-N	-5.97	111.46	120.60
1	G	525	SER	C-N-CA	-5.97	111.46	120.60
1	G	833	ALA	N-CA-C	5.97	117.32	108.60
1	O	210	ARG	N-CA-CB	5.97	121.94	111.55
1	E	510	GLN	CA-C-N	5.97	127.30	119.84
1	E	510	GLN	C-N-CA	5.97	127.30	119.84
1	F	506	VAL	N-CA-C	5.97	116.14	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	996	ASP	N-CA-C	-5.97	105.96	113.18
1	G	878	HIS	CA-CB-CG	-5.97	107.83	113.80
1	M	793	ILE	N-CA-C	5.97	116.75	110.72
1	H	781	ARG	N-CA-C	5.96	118.76	109.52
1	M	740	LEU	N-CA-C	5.96	117.91	108.67
1	A	566	PHE	CA-CB-CG	-5.96	107.84	113.80
1	E	754	LYS	N-CA-C	5.96	119.36	109.46
1	H	310	ARG	N-CA-CB	5.96	120.69	110.68
1	D	183	ARG	CD-NE-CZ	-5.96	116.06	124.40
1	G	948	PRO	CB-CA-C	-5.96	102.04	111.04
1	K	519	SER	N-CA-C	-5.96	102.49	110.24
1	B	47	PRO	N-CA-CB	5.96	109.50	103.25
1	G	562	LEU	CA-C-O	-5.96	114.73	120.92
1	N	122	CYS	N-CA-C	5.96	118.48	108.23
1	O	357	HIS	CA-CB-CG	5.96	119.75	113.80
1	H	429	ASP	CA-C-N	5.95	125.66	119.05
1	H	429	ASP	C-N-CA	5.95	125.66	119.05
1	M	408	TYR	O-C-N	-5.95	116.08	123.04
1	E	722	LEU	N-CA-C	5.95	117.64	111.03
1	A	101	THR	N-CA-CB	5.95	120.84	111.20
1	D	511	PRO	N-CA-CB	5.95	107.00	102.36
1	F	478	VAL	CA-C-N	-5.95	115.58	122.00
1	F	478	VAL	C-N-CA	-5.95	115.58	122.00
1	N	901	GLY	C-N-CD	-5.95	107.51	120.60
1	A	167	LEU	CA-C-N	5.95	125.97	119.90
1	A	167	LEU	C-N-CA	5.95	125.97	119.90
1	N	735	HIS	CA-CB-CG	-5.95	107.86	113.80
1	B	662	PRO	N-CA-CB	5.94	107.21	103.23
1	J	221	GLN	N-CA-C	5.94	118.73	109.52
1	D	612	THR	N-CA-CB	5.94	120.04	109.94
1	G	524	LEU	N-CA-C	5.94	118.24	111.11
1	C	722	LEU	N-CA-C	5.94	117.44	110.97
1	H	447	ASP	CA-CB-CG	-5.94	106.66	112.60
1	A	796	SER	N-CA-CB	5.94	118.70	109.85
1	C	731	PRO	CB-CA-C	-5.94	103.31	111.21
1	C	833	ALA	N-CA-C	5.94	116.25	107.88
1	E	244	VAL	CB-CA-C	-5.94	102.61	110.98
1	D	932	PRO	N-CA-C	5.94	120.82	111.38
1	H	111	PRO	O-C-N	5.94	123.94	121.15
1	C	996	ASP	CA-CB-CG	-5.93	106.67	112.60
1	N	878	HIS	CA-C-O	5.93	124.69	119.71
1	C	505	ARG	N-CA-C	5.93	117.70	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	684	GLU	N-CA-CB	5.93	118.32	109.19
1	G	559	TYR	CA-C-N	5.93	125.13	118.97
1	G	559	TYR	C-N-CA	5.93	125.13	118.97
1	I	316	HIS	CA-CB-CG	-5.93	107.87	113.80
1	B	729	THR	N-CA-C	5.92	118.85	110.50
1	C	210	ARG	N-CA-CB	5.92	119.94	111.05
1	I	672	VAL	N-CA-C	5.92	117.29	108.46
1	F	627	PHE	CA-CB-CG	-5.92	107.88	113.80
1	G	424	ASN	OD1-CG-ND2	5.92	128.52	122.60
1	K	648	ASP	CA-C-O	5.92	125.67	119.51
1	E	213	SER	N-CA-C	5.92	117.59	109.18
1	M	429	ASP	N-CA-C	5.92	122.89	109.81
1	I	613	PRO	CB-CA-C	-5.92	103.65	111.23
1	P	269	SER	N-CA-CB	5.92	120.49	110.49
1	B	166	ARG	N-CA-C	5.92	121.41	113.72
1	F	916	ASP	CA-C-N	-5.91	114.91	122.77
1	F	916	ASP	C-N-CA	-5.91	114.91	122.77
1	L	403	ASP	CA-CB-CG	5.91	118.51	112.60
1	K	525	SER	N-CA-C	5.91	119.80	112.59
1	M	128	ASN	N-CA-C	5.91	118.15	108.52
1	B	151	HIS	CA-CB-CG	-5.90	107.90	113.80
1	I	90	TRP	CB-CA-C	5.90	120.64	110.84
1	G	787	ALA	N-CA-C	-5.90	99.26	109.58
1	P	37	ARG	N-CA-C	-5.90	104.74	112.41
1	J	272	ALA	N-CA-C	5.90	113.44	108.13
1	L	201	ASP	CA-CB-CG	5.90	118.50	112.60
1	L	336	ARG	N-CA-C	5.90	118.82	109.50
1	N	360	HIS	CA-CB-CG	-5.90	107.90	113.80
1	E	210	ARG	CB-CA-C	5.89	120.16	109.37
1	H	412	GLU	N-CA-C	5.89	119.01	109.40
1	J	422	PRO	N-CA-CB	5.89	109.08	102.60
1	N	113	PHE	N-CA-C	5.89	118.81	110.50
1	H	608	PHE	CB-CA-C	5.89	119.32	109.89
1	P	109	VAL	N-CA-C	5.89	115.73	107.37
1	A	104	THR	N-CA-C	5.89	118.88	110.10
1	H	4	THR	O-C-N	5.89	129.11	122.22
1	K	142	ILE	N-CA-C	5.89	116.48	107.77
1	B	206	SER	N-CA-C	5.89	117.09	108.14
1	B	584	PRO	CB-CA-C	-5.89	100.89	110.25
1	B	861	SER	N-CA-C	-5.89	106.10	113.28
1	B	664	ALA	N-CA-C	5.88	118.22	108.99
1	H	452	SER	CA-C-N	-5.88	112.36	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	452	SER	C-N-CA	-5.88	112.36	121.18
1	I	97	ALA	N-CA-C	5.88	117.07	109.72
1	J	348	PRO	N-CA-CB	5.88	107.17	103.23
1	P	961	ARG	CA-C-O	5.88	124.94	118.65
1	E	441	THR	CA-CB-OG1	-5.87	100.79	109.60
1	C	542	MET	CA-C-O	5.87	127.30	120.49
1	M	353	GLY	N-CA-C	5.87	119.87	111.12
1	F	938	ARG	O-C-N	-5.87	116.07	123.17
1	M	100	TYR	CB-CA-C	5.87	120.83	111.73
1	G	424	ASN	CB-CA-C	-5.87	98.05	110.31
1	M	556	PHE	N-CA-CB	5.87	119.41	110.14
1	P	316	HIS	N-CA-C	5.87	116.03	108.34
1	F	113	PHE	CA-CB-CG	-5.86	107.94	113.80
1	K	435	ALA	CA-C-N	-5.86	112.47	120.44
1	K	435	ALA	C-N-CA	-5.86	112.47	120.44
1	O	232	ASN	N-CA-C	-5.86	102.26	110.35
1	P	819	GLU	O-C-N	5.86	129.87	123.13
1	M	563	GLN	N-CA-C	5.86	120.56	113.17
1	E	584	PRO	CB-CA-C	-5.86	106.07	111.40
1	O	730	LEU	CA-C-O	5.86	123.10	119.29
1	A	344	LEU	N-CA-C	-5.86	98.54	108.26
1	L	568	TRP	CA-C-N	5.86	132.24	121.70
1	L	568	TRP	C-N-CA	5.86	132.24	121.70
1	N	930	VAL	N-CA-CB	5.86	117.40	110.55
1	C	512	PHE	CA-CB-CG	-5.85	107.95	113.80
1	F	938	ARG	N-CA-CB	5.85	121.87	111.69
1	F	352	ARG	CA-C-N	-5.85	117.26	122.47
1	F	352	ARG	C-N-CA	-5.85	117.26	122.47
1	L	802	ASP	CB-CA-C	-5.85	105.18	110.44
1	O	604	ASN	CA-CB-CG	5.85	118.45	112.60
1	C	844	HIS	CA-CB-CG	-5.85	107.95	113.80
1	G	881	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	B	351	ILE	N-CA-C	5.84	115.95	108.12
1	D	823	LEU	N-CA-C	-5.84	106.79	114.04
1	G	351	ILE	N-CA-C	5.84	116.22	107.51
1	C	329	ASP	N-CA-C	-5.84	101.83	110.48
1	F	344	LEU	N-CA-CB	5.84	119.94	110.77
1	J	669	PRO	N-CA-CB	5.84	107.14	103.23
1	P	289	VAL	N-CA-CB	5.84	120.87	111.23
1	P	64	PRO	CB-CA-C	-5.84	102.62	111.44
1	P	770	ILE	N-CA-CB	5.84	120.86	111.23
1	D	878	HIS	CA-CB-CG	-5.84	107.96	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	356	ARG	N-CA-C	5.84	118.70	107.44
1	N	802	ASP	N-CA-CB	5.84	120.76	110.37
1	F	874	SER	CA-C-N	-5.83	113.85	122.83
1	F	874	SER	C-N-CA	-5.83	113.85	122.83
1	H	931	PHE	CA-C-N	5.83	126.16	119.92
1	H	931	PHE	C-N-CA	5.83	126.16	119.92
1	J	571	VAL	CB-CA-C	-5.83	102.50	110.90
1	F	649	ASN	N-CA-C	-5.83	103.53	110.41
1	L	955	PHE	CA-CB-CG	-5.83	107.97	113.80
1	C	213	SER	N-CA-C	5.83	118.55	109.52
1	C	648	ASP	N-CA-C	5.83	120.39	112.88
1	E	221	GLN	N-CA-CB	-5.83	102.18	111.62
1	F	919	ASP	O-C-N	-5.83	115.68	123.14
1	E	142	ILE	N-CA-C	5.82	116.25	107.75
1	F	980	GLU	N-CA-C	5.82	118.41	111.71
1	M	829	THR	N-CA-CB	5.82	119.92	110.43
1	I	460	ASN	N-CA-C	5.82	118.70	108.75
1	D	545	SER	N-CA-C	5.82	119.42	108.65
1	H	383	ASN	N-CA-C	5.82	119.96	112.86
1	N	876	THR	N-CA-CB	5.82	120.53	110.23
1	H	553	TRP	CA-CB-CG	-5.82	102.55	113.60
1	E	429	ASP	O-C-N	5.82	128.01	121.32
1	F	418	HIS	CA-CB-CG	-5.82	107.98	113.80
1	J	159	VAL	CB-CA-C	-5.82	105.92	111.44
1	M	93	HIS	CA-C-O	5.82	125.56	119.51
1	F	40	GLU	N-CA-CB	5.81	118.66	109.82
1	P	25	ASN	CA-CB-CG	-5.81	106.79	112.60
1	H	471	LEU	N-CA-C	5.81	118.39	111.71
1	A	433	LEU	CA-C-O	5.81	123.97	118.63
1	F	105	TYR	O-C-N	5.81	127.09	121.28
1	I	584	PRO	CB-CA-C	-5.81	103.37	110.98
1	P	1011	ALA	N-CA-C	5.81	118.39	111.71
1	A	98	PRO	N-CA-C	-5.80	101.99	111.68
1	C	787	ALA	CA-C-N	5.80	127.10	119.84
1	C	787	ALA	C-N-CA	5.80	127.10	119.84
1	H	166	ARG	NE-CZ-NH2	-5.80	113.98	119.20
1	H	460	ASN	N-CA-C	5.80	118.67	108.75
1	G	649	ASN	CA-CB-CG	-5.80	106.80	112.60
1	D	927	THR	CA-C-N	5.80	127.09	119.84
1	D	927	THR	C-N-CA	5.80	127.09	119.84
1	J	329	ASP	N-CA-CB	5.80	119.10	110.29
1	N	558	GLN	CA-C-O	5.80	125.43	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	793	ILE	CB-CA-C	-5.80	104.45	112.04
1	M	138	GLN	N-CA-C	5.79	118.34	108.90
1	N	823	LEU	N-CA-C	-5.79	106.84	114.31
1	P	424	ASN	OD1-CG-ND2	5.79	128.39	122.60
1	H	766	SER	N-CA-C	5.79	120.07	112.89
1	J	796	SER	N-CA-CB	5.79	118.51	110.17
1	A	423	MET	CA-C-N	5.79	130.52	120.68
1	A	423	MET	C-N-CA	5.79	130.52	120.68
1	H	607	VAL	O-C-N	5.79	129.13	122.82
1	P	209	PHE	N-CA-C	5.79	119.97	113.02
1	G	935	ASN	N-CA-C	5.79	116.04	107.88
1	E	833	ALA	CA-C-O	-5.79	115.09	121.28
1	C	363	HIS	N-CA-C	5.78	120.18	113.18
1	F	98	PRO	N-CA-C	-5.78	102.11	111.77
1	P	95	TYR	N-CA-CB	5.78	118.73	110.06
1	P	629	PHE	N-CA-C	5.78	118.97	109.72
1	I	424	ASN	CB-CA-C	-5.78	101.80	110.88
1	N	855	THR	CA-CB-OG1	5.78	118.27	109.60
1	I	581	ASN	CA-CB-CG	5.78	118.38	112.60
1	A	779	PRO	N-CA-CB	5.78	108.82	103.39
1	G	401	LEU	CA-C-N	-5.78	112.54	120.28
1	G	401	LEU	C-N-CA	-5.78	112.54	120.28
1	D	105	TYR	O-C-N	5.77	127.90	121.43
1	E	206	SER	N-CA-C	5.77	117.25	108.07
1	L	506	VAL	N-CA-C	5.77	117.20	110.62
1	P	804	ASN	CA-CB-CG	-5.77	106.83	112.60
1	B	386	ALA	N-CA-C	5.77	117.62	108.79
1	A	118	ASN	CA-C-O	5.77	126.92	120.34
1	I	188	VAL	N-CA-C	5.77	117.08	108.54
1	M	571	VAL	CB-CA-C	-5.77	102.94	111.19
1	D	113	PHE	CA-CB-CG	-5.77	108.03	113.80
1	L	188	VAL	N-CA-C	5.77	117.64	108.87
1	A	657	ALA	N-CA-C	5.77	117.83	108.26
1	E	382	ASN	CA-CB-CG	-5.76	106.83	112.60
1	K	800	ARG	N-CA-C	5.76	119.06	107.41
1	M	78	LEU	N-CA-CB	5.76	118.52	110.11
1	M	101	THR	N-CA-CB	5.76	120.53	111.20
1	B	254	LEU	N-CA-CB	5.76	118.43	109.97
1	C	613	PRO	N-CA-C	5.76	120.23	111.19
1	H	739	HIS	CA-CB-CG	-5.76	108.04	113.80
1	D	189	LEU	N-CA-CB	5.75	119.95	110.69
1	J	385	ASN	CA-CB-CG	-5.75	106.84	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	536	CYS	N-CA-C	-5.75	105.76	112.89
1	P	357	HIS	N-CA-CB	5.75	119.34	110.60
1	E	424	ASN	OD1-CG-ND2	5.75	128.35	122.60
1	B	675	GLN	CA-C-N	-5.75	117.31	122.43
1	B	675	GLN	C-N-CA	-5.75	117.31	122.43
1	M	240	LEU	N-CA-CB	5.75	119.24	109.87
1	E	522	LYS	CB-CA-C	5.75	120.34	110.86
1	F	908	ASP	CA-CB-CG	-5.75	106.85	112.60
1	H	16	TRP	N-CA-C	-5.75	106.31	113.15
1	I	7	LEU	N-CA-C	-5.75	104.21	111.11
1	M	451	PRO	N-CA-CB	5.75	109.28	103.25
1	O	734	SER	N-CA-C	5.75	118.84	109.59
1	B	155	ASN	CA-C-N	-5.75	116.60	123.44
1	B	155	ASN	C-N-CA	-5.75	116.60	123.44
1	M	408	TYR	N-CA-CB	5.75	118.86	109.95
1	H	100	TYR	N-CA-CB	5.74	121.45	110.82
1	J	115	PRO	CB-CA-C	-5.74	104.51	111.46
1	O	571	VAL	N-CA-C	5.74	117.69	108.85
1	A	336	ARG	N-CA-CB	-5.74	100.83	110.99
1	F	553	TRP	CA-CB-CG	-5.74	102.69	113.60
1	J	648	ASP	N-CA-C	5.74	119.91	113.02
1	P	649	ASN	N-CA-CB	5.74	120.19	110.49
1	F	100	TYR	CA-CB-CG	-5.74	103.57	113.90
1	M	99	ILE	N-CA-C	5.74	116.14	108.11
1	P	645	ARG	N-CA-CB	5.74	118.40	109.97
1	G	593	GLY	N-CA-C	-5.74	107.40	115.32
1	O	492	ASP	CA-CB-CG	-5.73	106.87	112.60
1	N	449	ASN	N-CA-CB	5.73	118.78	110.47
1	G	224	ASP	CA-CB-CG	5.72	118.32	112.60
1	N	394	ASN	N-CA-C	5.72	117.91	110.53
1	P	959	ILE	N-CA-C	5.72	115.83	107.37
1	I	612	THR	N-CA-CB	5.72	118.36	110.01
1	N	747	PHE	CA-CB-CG	-5.72	108.08	113.80
1	C	811	LYS	CB-CA-C	-5.71	102.16	110.96
1	E	645	ARG	N-CA-CB	5.71	118.53	110.36
1	O	800	ARG	N-CA-C	5.71	118.58	108.24
1	I	732	ALA	CB-CA-C	5.71	119.42	109.65
1	O	150	PHE	CA-CB-CG	-5.71	108.09	113.80
1	J	792	ASP	CA-CB-CG	5.71	118.31	112.60
1	L	414	ASN	CA-CB-CG	5.71	118.31	112.60
1	M	411	ASP	N-CA-CB	5.71	119.94	110.52
1	D	249	GLU	N-CA-CB	5.71	119.29	110.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	1004	SER	N-CA-C	5.71	118.93	110.48
1	A	306	PRO	CB-CA-C	-5.71	105.41	112.89
1	I	395	HIS	CA-C-O	5.71	123.54	119.32
1	H	59	ARG	CB-CA-C	5.70	119.14	109.50
1	J	846	GLY	CA-C-N	-5.70	114.15	122.65
1	J	846	GLY	C-N-CA	-5.70	114.15	122.65
1	P	802	ASP	O-C-N	5.70	126.61	120.85
1	C	969	GLU	N-CA-CB	5.70	118.48	110.90
1	E	519	SER	N-CA-C	-5.70	101.97	110.23
1	P	453	VAL	N-CA-CB	5.70	119.02	110.13
1	B	38	ASN	CA-CB-CG	-5.70	106.90	112.60
1	B	352	ARG	CA-C-N	-5.70	114.74	122.03
1	B	352	ARG	C-N-CA	-5.70	114.74	122.03
1	E	167	LEU	CA-C-N	5.70	125.65	119.78
1	E	167	LEU	C-N-CA	5.70	125.65	119.78
1	M	809	ARG	O-C-N	5.70	127.94	122.07
1	J	159	VAL	N-CA-C	5.70	116.46	111.56
1	A	986	ILE	CB-CA-C	-5.69	103.59	110.99
1	B	842	TRP	CA-C-N	-5.69	113.25	122.36
1	B	842	TRP	C-N-CA	-5.69	113.25	122.36
1	D	913	ALA	N-CA-C	5.69	118.70	110.28
1	K	847	LYS	CA-C-N	-5.69	115.44	122.84
1	K	847	LYS	C-N-CA	-5.69	115.44	122.84
1	N	273	PRO	N-CA-CB	5.69	109.23	103.25
1	H	563	GLN	N-CA-C	5.69	119.92	112.92
1	P	495	ALA	CA-C-N	-5.69	114.41	122.94
1	P	495	ALA	C-N-CA	-5.69	114.41	122.94
1	C	924	ASP	CA-C-N	-5.69	113.68	122.49
1	C	924	ASP	C-N-CA	-5.69	113.68	122.49
1	J	627	PHE	CA-CB-CG	-5.68	108.11	113.80
1	K	63	PHE	CA-C-N	5.68	125.36	119.56
1	K	63	PHE	C-N-CA	5.68	125.36	119.56
1	A	122	CYS	N-CA-C	5.68	117.72	108.63
1	G	105	TYR	CA-C-N	5.68	125.36	119.56
1	G	105	TYR	C-N-CA	5.68	125.36	119.56
1	G	122	CYS	N-CA-C	5.68	117.72	108.63
1	J	222	ILE	CA-C-N	-5.68	113.68	122.49
1	J	222	ILE	C-N-CA	-5.68	113.68	122.49
1	G	728	VAL	CB-CA-C	-5.68	104.48	110.62
1	H	116	THR	N-CA-C	-5.68	106.19	113.01
1	L	157	ARG	N-CA-C	5.68	118.50	109.24
1	N	855	THR	N-CA-CB	5.68	119.96	110.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	559	TYR	CA-C-N	5.68	126.06	119.47
1	K	559	TYR	C-N-CA	5.68	126.06	119.47
1	P	100	TYR	N-CA-CB	5.68	120.77	110.95
1	H	878	HIS	CA-CB-CG	-5.67	108.12	113.80
1	K	674	PRO	N-CA-CB	5.67	109.21	103.25
1	C	970	THR	CA-CB-OG1	-5.67	101.09	109.60
1	L	629	PHE	N-CA-C	5.67	118.46	109.50
1	I	593	GLY	N-CA-C	-5.67	107.94	114.69
1	P	85	VAL	CB-CA-C	5.67	119.42	110.81
1	B	746	ASP	N-CA-C	5.67	115.87	107.88
1	L	804	ASN	CA-CB-CG	-5.67	106.94	112.60
1	O	201	ASP	CA-CB-CG	5.67	118.27	112.60
1	D	282	ARG	CA-C-N	-5.66	114.72	122.42
1	D	282	ARG	C-N-CA	-5.66	114.72	122.42
1	F	399	TYR	CA-C-N	-5.66	112.74	120.44
1	F	399	TYR	C-N-CA	-5.66	112.74	120.44
1	G	142	ILE	N-CA-C	5.66	116.75	107.24
1	O	479	ASP	CB-CA-C	-5.66	103.62	110.81
1	A	938	ARG	CB-CG-CD	5.66	124.32	111.30
1	C	647	SER	CA-C-O	-5.66	115.04	121.66
1	K	1020	TRP	N-CA-C	5.66	117.96	108.73
1	A	353	GLY	N-CA-C	5.66	121.42	111.57
1	B	147	ASN	N-CA-CB	-5.66	101.82	110.65
1	I	1004	SER	CA-C-N	5.66	128.18	120.54
1	I	1004	SER	C-N-CA	5.66	128.18	120.54
1	G	748	CYS	N-CA-CB	5.66	118.38	109.83
1	I	781	ARG	N-CA-C	5.66	118.29	109.52
1	K	619	GLU	N-CA-C	-5.66	105.02	111.07
1	K	787	ALA	CA-C-N	5.66	126.91	119.84
1	K	787	ALA	C-N-CA	5.66	126.91	119.84
1	L	819	GLU	N-CA-C	5.66	119.47	109.96
1	E	644	PHE	N-CA-C	5.66	120.45	112.93
1	L	896	ASN	CA-CB-CG	5.66	118.26	112.60
1	G	741	THR	N-CA-CB	5.66	120.05	110.49
1	K	5	ASP	CA-C-O	5.66	125.60	119.15
1	J	802	ASP	CA-C-N	5.65	126.91	119.84
1	J	802	ASP	C-N-CA	5.65	126.91	119.84
1	L	571	VAL	CB-CA-C	-5.65	101.85	110.95
1	L	125	LEU	N-CA-C	5.65	116.99	108.46
1	P	142	ILE	N-CA-CB	5.65	117.83	111.21
1	H	40	GLU	N-CA-CB	5.65	118.20	110.01
1	N	688	PRO	CB-CA-C	-5.65	102.24	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	19	PRO	N-CA-C	-5.65	106.03	113.65
1	O	931	PHE	CA-C-N	5.65	125.41	119.76
1	O	931	PHE	C-N-CA	5.65	125.41	119.76
1	E	105	TYR	CA-C-N	5.64	126.39	120.12
1	E	105	TYR	C-N-CA	5.64	126.39	120.12
1	E	182	ASN	CB-CA-C	5.64	119.54	109.38
1	F	897	TRP	N-CA-C	5.64	117.65	109.07
1	J	34	ALA	N-CA-C	-5.64	107.64	114.75
1	K	921	PRO	CB-CA-C	-5.64	104.63	111.46
1	M	686	PRO	CB-CA-C	-5.64	104.01	111.23
1	I	778	THR	CB-CA-C	-5.64	101.27	109.45
1	J	728	VAL	CB-CA-C	-5.64	102.04	111.29
1	B	556	PHE	CA-C-N	-5.64	112.73	120.28
1	B	556	PHE	C-N-CA	-5.64	112.73	120.28
1	C	57	GLU	N-CA-C	5.64	117.41	108.67
1	M	645	ARG	N-CA-C	5.64	118.16	110.55
1	D	795	VAL	N-CA-C	5.63	117.52	112.17
1	M	147	ASN	N-CA-CB	-5.63	101.92	110.77
1	P	357	HIS	CA-CB-CG	5.63	119.43	113.80
1	D	683	PRO	CB-CA-C	-5.63	103.85	111.12
1	M	833	ALA	CA-C-O	-5.63	115.25	121.28
1	F	832	ASP	N-CA-C	5.63	120.14	113.16
1	A	118	ASN	CA-CB-CG	5.63	118.23	112.60
1	I	581	ASN	N-CA-C	-5.63	106.45	113.15
1	B	802	ASP	CA-C-N	5.63	125.47	119.28
1	B	802	ASP	C-N-CA	5.63	125.47	119.28
1	F	221	GLN	CB-CA-C	-5.63	100.14	111.17
1	L	980	GLU	N-CA-C	5.63	117.11	110.97
1	M	390	SER	N-CA-CB	5.63	120.00	110.49
1	O	168	PRO	CB-CA-C	-5.63	104.03	111.23
1	C	257	THR	N-CA-CB	5.62	119.75	110.69
1	G	167	LEU	CA-C-N	5.62	126.06	119.99
1	G	167	LEU	C-N-CA	5.62	126.06	119.99
1	G	999	TRP	CA-C-O	5.62	124.67	118.65
1	L	335	VAL	CB-CA-C	-5.62	103.44	111.31
1	O	306	PRO	N-CA-CB	5.62	106.19	102.25
1	D	378	LEU	N-CA-CB	5.62	118.12	109.91
1	M	927	THR	CA-C-N	5.62	126.87	119.84
1	M	927	THR	C-N-CA	5.62	126.87	119.84
1	N	90	TRP	N-CA-C	5.62	118.95	111.75
1	E	352	ARG	CA-C-N	-5.62	117.10	121.82
1	E	352	ARG	C-N-CA	-5.62	117.10	121.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	100	TYR	N-CA-CB	5.62	121.24	110.90
1	G	36	TRP	CB-CA-C	-5.62	100.04	109.65
1	A	152	LEU	N-CA-C	5.62	117.52	107.80
1	H	147	ASN	CA-C-O	-5.62	114.75	120.71
1	M	834	VAL	N-CA-CB	5.62	116.84	110.72
1	O	482	ARG	O-C-N	5.62	127.79	122.06
1	P	959	ILE	N-CA-CB	-5.62	104.59	111.67
1	N	213	SER	N-CA-C	5.62	117.95	109.41
1	H	828	ASP	CA-C-N	-5.61	115.19	123.05
1	H	828	ASP	C-N-CA	-5.61	115.19	123.05
1	K	872	VAL	N-CA-C	5.61	115.97	108.11
1	M	605	GLY	N-CA-C	5.61	119.72	112.54
1	C	645	ARG	N-CA-C	5.61	118.12	110.55
1	C	958	ASN	CA-CB-CG	5.61	118.21	112.60
1	G	464	HIS	CA-CB-CG	-5.61	108.19	113.80
1	N	714	ILE	N-CA-CB	5.61	116.83	110.72
1	C	98	PRO	N-CA-C	-5.61	102.46	111.38
1	H	15	ASP	CA-CB-CG	-5.61	106.99	112.60
1	O	327	ALA	N-CA-C	5.61	115.69	108.34
1	K	903	GLN	N-CA-C	5.61	117.93	110.53
1	L	870	VAL	N-CA-C	5.61	117.29	109.55
1	A	872	VAL	CA-C-N	-5.60	112.76	120.71
1	A	872	VAL	C-N-CA	-5.60	112.76	120.71
1	E	203	TRP	N-CA-CB	5.60	118.69	110.35
1	M	408	TYR	CA-C-N	-5.60	114.28	122.68
1	M	408	TYR	C-N-CA	-5.60	114.28	122.68
1	I	68	ALA	N-CA-C	-5.60	105.88	114.16
1	P	337	ILE	CB-CA-C	-5.60	104.14	111.25
1	P	655	MET	N-CA-C	5.60	118.60	108.69
1	B	97	ALA	N-CA-C	5.60	118.01	110.29
1	E	536	CYS	N-CA-C	-5.60	104.81	111.69
1	G	448	ARG	N-CA-C	5.59	119.20	112.38
1	G	101	THR	N-CA-CB	5.59	119.44	111.05
1	K	908	ASP	N-CA-CB	5.59	118.72	110.56
1	N	239	VAL	N-CA-C	5.59	115.61	106.72
1	F	586	SER	N-CA-C	5.59	117.20	109.15
1	M	840	HIS	ND1-CG-CD2	5.58	111.69	106.10
1	N	510	GLN	CA-C-N	5.58	126.82	119.84
1	N	510	GLN	C-N-CA	5.58	126.82	119.84
1	J	186	VAL	N-CA-C	5.58	116.34	108.36
1	D	39	SER	N-CA-C	5.58	117.04	111.07
1	G	982	THR	N-CA-C	-5.58	99.92	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	430	PRO	N-CA-C	-5.58	105.44	113.75
1	O	756	TRP	CA-C-N	-5.58	115.12	122.99
1	O	756	TRP	C-N-CA	-5.58	115.12	122.99
1	D	991	MET	N-CA-CB	5.58	118.77	110.29
1	J	222	ILE	CB-CA-C	-5.58	103.86	111.33
1	A	40	GLU	N-CA-CB	5.58	118.10	110.01
1	M	860	GLY	CA-C-N	5.58	128.31	120.28
1	M	860	GLY	C-N-CA	5.58	128.31	120.28
1	E	73	TRP	CA-C-N	5.58	127.75	120.28
1	E	73	TRP	C-N-CA	5.58	127.75	120.28
1	C	516	PRO	CB-CA-C	-5.57	103.65	110.95
1	D	312	VAL	N-CA-CB	5.57	119.66	111.52
1	E	610	ASP	CA-CB-CG	5.57	118.17	112.60
1	C	94	GLY	CA-C-N	-5.57	111.84	120.31
1	C	94	GLY	C-N-CA	-5.57	111.84	120.31
1	D	774	LYS	N-CA-C	-5.57	103.03	110.55
1	E	633	GLY	CA-C-N	-5.57	113.74	122.65
1	E	633	GLY	C-N-CA	-5.57	113.74	122.65
1	F	657	ALA	N-CA-C	5.57	117.46	108.32
1	H	483	PRO	N-CA-CB	5.57	109.23	103.38
1	P	60	PHE	CA-CB-CG	-5.57	108.23	113.80
1	H	558	GLN	N-CA-C	5.57	118.54	111.69
1	M	796	SER	CB-CA-C	5.57	118.97	109.72
1	E	182	ASN	N-CA-C	5.57	118.55	109.59
1	M	500	CYS	CA-C-N	-5.57	114.85	120.31
1	M	500	CYS	C-N-CA	-5.57	114.85	120.31
1	N	1010	SER	N-CA-CB	-5.57	101.79	110.98
1	P	513	PRO	N-CA-CB	5.57	108.15	103.25
1	L	1021	CYS	N-CA-CB	5.57	120.19	111.56
1	M	478	VAL	N-CA-C	5.57	116.34	110.72
1	J	31	PRO	CA-C-N	5.56	127.07	120.23
1	J	31	PRO	C-N-CA	5.56	127.07	120.23
1	A	84	VAL	N-CA-CB	-5.56	105.92	112.32
1	A	907	PRO	N-CA-CB	5.56	109.44	103.33
1	C	583	ASN	CB-CA-C	5.56	116.19	109.85
1	H	650	GLU	O-C-N	5.56	129.77	123.27
1	I	583	ASN	N-CA-C	5.56	117.08	110.07
1	K	312	VAL	N-CA-C	5.55	116.58	108.53
1	M	583	ASN	CB-CA-C	5.55	117.19	108.63
1	P	395	HIS	CA-C-O	5.55	127.77	120.16
1	P	802	ASP	CA-C-N	5.55	126.78	119.84
1	P	802	ASP	C-N-CA	5.55	126.78	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	461	GLU	N-CA-C	5.55	119.00	111.17
1	H	932	PRO	N-CA-C	5.55	119.95	111.34
1	I	110	ASN	N-CA-C	5.55	116.76	108.76
1	K	158	TRP	N-CA-CB	5.55	118.19	109.69
1	B	142	ILE	N-CA-CB	-5.55	105.00	112.10
1	E	689	GLU	N-CA-C	-5.55	105.30	112.68
1	B	360	HIS	CA-C-N	5.55	125.01	119.24
1	B	360	HIS	C-N-CA	5.55	125.01	119.24
1	B	538	TYR	N-CA-CB	5.55	120.61	111.62
1	C	831	ALA	N-CA-C	5.55	117.01	111.07
1	B	593	GLY	N-CA-C	-5.55	107.45	115.27
1	L	101	THR	N-CA-CB	5.55	120.57	111.08
1	D	363	HIS	N-CA-C	5.55	119.67	113.01
1	P	503	TYR	CA-CB-CG	-5.55	103.92	113.90
1	F	515	VAL	N-CA-CB	-5.54	103.45	111.21
1	G	433	LEU	CA-C-O	5.54	124.35	119.08
1	B	745	MET	CB-CA-C	-5.54	101.11	110.64
1	H	612	THR	CA-C-N	5.54	125.45	119.85
1	H	612	THR	C-N-CA	5.54	125.45	119.85
1	L	178	ARG	CB-CA-C	-5.54	101.85	112.43
1	O	323	ILE	N-CA-C	-5.54	107.42	112.96
1	M	234	ASP	CA-CB-CG	-5.54	107.06	112.60
1	F	950	GLN	N-CA-C	5.54	117.07	107.93
1	I	166	ARG	N-CA-C	5.54	120.19	113.38
1	J	996	ASP	N-CA-C	-5.54	106.36	113.01
1	L	134	LEU	CB-CA-C	5.54	118.85	109.55
1	E	871	GLU	CB-CA-C	-5.54	101.28	110.14
1	L	770	ILE	CB-CA-C	-5.54	104.14	110.73
1	C	95	TYR	N-CA-CB	5.53	118.86	110.28
1	J	576	ILE	N-CA-C	5.53	116.08	107.28
1	M	835	LEU	CB-CA-C	-5.53	100.97	110.16
1	N	240	LEU	N-CA-C	-5.53	103.19	110.33
1	C	729	THR	N-CA-CB	5.53	119.44	110.43
1	D	524	LEU	CB-CA-C	-5.53	100.40	110.63
1	N	860	GLY	CA-C-N	5.53	128.46	120.38
1	N	860	GLY	C-N-CA	5.53	128.46	120.38
1	C	480	PRO	CB-CA-C	-5.53	103.55	111.62
1	D	44	THR	CA-CB-OG1	-5.53	101.31	109.60
1	D	380	LYS	N-CA-CB	5.53	118.03	110.01
1	G	510	GLN	CA-C-N	5.53	126.75	119.84
1	G	510	GLN	C-N-CA	5.53	126.75	119.84
1	M	187	MET	CA-C-N	5.53	130.97	121.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	187	MET	C-N-CA	5.53	130.97	121.63
1	M	788	PRO	N-CA-CB	5.53	109.05	103.25
1	O	155	ASN	CA-CB-CG	-5.53	107.07	112.60
1	O	788	PRO	N-CA-CB	5.53	107.96	103.32
1	G	736	ALA	N-CA-C	5.53	118.60	110.59
1	O	796	SER	N-CA-CB	5.53	118.68	109.56
1	P	649	ASN	CB-CA-C	5.53	121.41	110.42
1	P	347	LYS	N-CA-C	5.52	117.91	110.29
1	M	291	LEU	N-CA-CB	5.52	119.17	110.56
1	G	31	PRO	N-CA-CB	5.52	108.43	103.08
1	H	23	GLN	N-CA-CB	5.52	120.84	111.57
1	K	695	TRP	N-CA-C	5.52	118.09	108.76
1	O	55	ASN	CA-C-O	-5.52	115.12	121.19
1	P	150	PHE	N-CA-C	5.52	117.46	109.07
1	G	768	MET	CB-CA-C	5.52	121.69	109.94
1	L	664	ALA	N-CA-C	5.52	117.37	108.32
1	C	562	LEU	N-CA-C	-5.51	100.19	108.96
1	E	222	ILE	CA-CB-CG2	-5.51	101.13	110.50
1	C	39	SER	N-CA-C	5.51	117.72	111.11
1	L	731	PRO	CB-CA-C	-5.51	104.56	111.56
1	D	249	GLU	N-CA-C	5.51	117.28	108.41
1	M	948	PRO	CB-CA-C	-5.51	104.06	112.11
1	F	635	THR	N-CA-C	5.51	117.50	108.52
1	F	644	PHE	CA-CB-CG	-5.51	108.29	113.80
1	H	507	ASP	CA-C-N	-5.51	114.68	122.94
1	H	507	ASP	C-N-CA	-5.51	114.68	122.94
1	M	66	PRO	O-C-N	5.51	128.13	122.18
1	P	155	ASN	CA-CB-CG	-5.51	107.09	112.60
1	C	360	HIS	CA-CB-CG	-5.51	108.29	113.80
1	K	188	VAL	N-CA-C	5.50	116.91	108.71
1	P	644	PHE	CA-CB-CG	-5.50	108.30	113.80
1	E	386	ALA	N-CA-CB	-5.50	102.99	111.46
1	F	370	GLN	N-CA-C	5.50	117.71	111.11
1	I	73	TRP	N-CA-C	5.50	117.99	111.33
1	J	857	ARG	CA-C-N	5.50	129.86	122.93
1	J	857	ARG	C-N-CA	5.50	129.86	122.93
1	M	949	HIS	N-CA-C	5.50	117.64	110.43
1	N	181	GLU	N-CA-C	5.50	118.55	110.30
1	P	645	ARG	N-CA-C	5.50	118.42	110.28
1	D	238	ALA	CA-C-N	-5.50	115.35	122.99
1	D	238	ALA	C-N-CA	-5.50	115.35	122.99
1	C	559	TYR	CA-C-O	5.49	123.38	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	98	PRO	N-CA-CB	5.49	109.05	102.85
1	I	404	ARG	N-CA-C	5.49	117.34	111.36
1	N	119	PRO	N-CA-CB	5.49	109.01	103.25
1	F	409	VAL	CB-CA-C	-5.48	102.45	110.62
1	G	54	LEU	N-CA-C	-5.48	105.22	113.89
1	J	329	ASP	CA-CB-CG	5.48	118.08	112.60
1	F	404	ARG	N-CA-C	5.48	117.33	111.36
1	K	1004	SER	N-CA-CB	5.48	118.62	110.29
1	O	454	ILE	CB-CA-C	-5.48	102.30	111.29
1	I	73	TRP	CB-CA-C	5.48	119.99	110.68
1	M	748	CYS	N-CA-CB	5.48	119.23	110.46
1	P	685	LEU	N-CA-C	5.48	118.23	110.40
1	E	19	PRO	N-CA-C	-5.48	107.30	114.03
1	F	337	ILE	O-C-N	-5.48	116.95	123.03
1	O	578	TYR	N-CA-C	5.48	118.33	109.40
1	B	338	GLU	N-CA-C	5.47	117.14	107.61
1	C	650	GLU	N-CA-C	5.47	118.38	108.69
1	O	792	ASP	N-CA-C	-5.47	106.44	113.23
1	L	335	VAL	N-CA-CB	-5.47	104.57	111.41
1	M	855	THR	N-CA-CB	5.47	119.36	110.77
1	L	345	ASN	N-CA-CB	5.47	119.74	110.49
1	C	730	LEU	CB-CA-C	5.47	117.30	109.26
1	M	98	PRO	N-CA-C	-5.47	103.26	111.57
1	P	119	PRO	CA-C-N	5.47	129.32	121.50
1	P	119	PRO	C-N-CA	5.47	129.32	121.50
1	E	850	PHE	N-CA-C	5.47	117.57	108.99
1	K	341	LEU	N-CA-C	5.47	118.39	109.59
1	M	472	TYR	N-CA-C	-5.47	104.96	111.03
1	B	558	GLN	N-CA-C	5.46	117.32	111.36
1	B	729	THR	N-CA-CB	5.46	118.04	110.17
1	B	881	ARG	NE-CZ-NH2	-5.46	114.28	119.20
1	D	335	VAL	CB-CA-C	-5.46	104.31	111.25
1	E	695	TRP	N-CA-C	5.46	117.81	108.90
1	H	680	ILE	N-CA-C	5.46	115.97	107.99
1	O	680	ILE	N-CA-C	5.46	115.19	106.88
1	B	870	VAL	N-CA-C	5.46	116.35	108.48
1	B	460	ASN	N-CA-C	5.46	118.09	108.75
1	C	166	ARG	N-CA-CB	-5.46	102.41	110.49
1	G	60	PHE	CA-CB-CG	-5.46	108.34	113.80
1	G	63	PHE	CA-C-N	5.46	125.08	119.56
1	G	63	PHE	C-N-CA	5.46	125.08	119.56
1	H	147	ASN	N-CA-CB	-5.46	101.90	110.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	414	ASN	CA-CB-CG	5.46	118.06	112.60
1	C	209	PHE	N-CA-C	5.46	119.94	113.28
1	F	793	ILE	N-CA-C	5.46	116.95	111.00
1	H	336	ARG	N-CA-CB	-5.46	102.36	111.20
1	H	796	SER	CB-CA-C	5.46	118.62	109.89
1	I	339	ASN	N-CA-CB	5.46	119.71	110.49
1	K	675	GLN	CA-C-N	-5.46	117.57	122.43
1	K	675	GLN	C-N-CA	-5.46	117.57	122.43
1	O	376	ILE	N-CA-CB	5.46	116.57	110.51
1	P	652	LEU	N-CA-CB	5.46	119.37	110.37
1	P	424	ASN	N-CA-C	5.46	119.65	112.89
1	D	949	HIS	N-CA-C	5.45	118.99	110.32
1	E	412	GLU	N-CA-C	5.45	118.33	109.06
1	E	832	ASP	CA-CB-CG	-5.45	107.15	112.60
1	G	501	PRO	N-CA-CB	5.45	110.62	103.42
1	N	781	ARG	N-CA-C	5.45	117.70	109.41
1	O	305	ILE	CB-CA-C	-5.45	105.90	111.08
1	G	221	GLN	N-CA-C	5.45	117.70	109.41
1	L	515	VAL	CA-C-N	5.45	125.39	119.78
1	L	515	VAL	C-N-CA	5.45	125.39	119.78
1	F	373	VAL	N-CA-C	5.45	116.18	110.62
1	I	428	ASP	N-CA-C	-5.45	106.51	112.72
1	K	147	ASN	N-CA-CB	-5.45	102.02	110.57
1	K	446	ARG	N-CA-C	5.45	118.39	111.69
1	B	150	PHE	N-CA-C	5.45	116.80	108.52
1	D	704	ASN	N-CA-C	5.45	118.86	110.42
1	H	215	LEU	N-CA-CB	5.45	120.31	110.83
1	N	213	SER	CA-C-N	5.45	130.67	122.99
1	N	213	SER	C-N-CA	5.45	130.67	122.99
1	A	214	LEU	CA-C-O	5.45	126.36	120.32
1	B	594	ASP	O-C-N	5.45	129.53	122.89
1	B	719	GLN	N-CA-C	5.45	117.09	107.61
1	N	416	GLU	N-CA-CB	5.45	119.96	110.81
1	E	634	GLN	N-CA-CB	5.44	118.51	110.56
1	F	638	VAL	CB-CA-C	-5.44	104.16	110.91
1	L	896	ASN	CB-CA-C	5.44	118.19	110.24
1	P	426	LEU	CA-C-N	5.44	127.84	120.38
1	P	426	LEU	C-N-CA	5.44	127.84	120.38
1	H	85	VAL	N-CA-CB	5.44	121.27	111.21
1	J	908	ASP	N-CA-CB	5.44	118.07	110.56
1	M	509	ASP	CA-CB-CG	5.44	118.04	112.60
1	O	571	VAL	CB-CA-C	-5.44	102.44	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	769	TRP	O-C-N	5.44	129.29	122.43
1	D	826	THR	N-CA-C	5.44	118.38	110.17
1	L	425	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	B	760	ARG	CA-C-N	-5.44	112.51	121.92
1	B	760	ARG	C-N-CA	-5.44	112.51	121.92
1	G	385	ASN	CA-CB-CG	5.44	118.04	112.60
1	E	677	LYS	CA-C-N	-5.43	115.05	122.93
1	E	677	LYS	C-N-CA	-5.43	115.05	122.93
1	I	405	TYR	N-CA-C	5.43	118.37	111.69
1	I	612	THR	CA-C-N	5.43	125.38	119.78
1	I	612	THR	C-N-CA	5.43	125.38	119.78
1	L	386	ALA	N-CA-CB	-5.43	102.79	111.43
1	D	938	ARG	N-CA-CB	5.43	120.36	111.08
1	F	507	ASP	CA-C-N	-5.43	115.33	122.99
1	F	507	ASP	C-N-CA	-5.43	115.33	122.99
1	M	188	VAL	N-CA-C	5.43	115.40	108.12
1	F	113	PHE	N-CA-C	5.43	117.69	110.53
1	H	213	SER	N-CA-C	5.43	116.88	109.18
1	L	394	ASN	CB-CA-C	-5.43	99.13	109.66
1	N	838	THR	N-CA-C	5.43	117.66	109.41
1	K	572	ASP	N-CA-CB	5.42	117.93	109.85
1	L	296	GLU	CA-C-N	-5.42	117.65	124.21
1	L	296	GLU	C-N-CA	-5.42	117.65	124.21
1	L	519	SER	O-C-N	-5.42	115.88	122.82
1	P	683	PRO	CA-C-N	-5.42	113.01	120.71
1	P	683	PRO	C-N-CA	-5.42	113.01	120.71
1	E	571	VAL	N-CA-C	5.42	116.66	108.96
1	B	549	PHE	CA-C-N	-5.42	113.02	120.28
1	B	549	PHE	C-N-CA	-5.42	113.02	120.28
1	H	701	VAL	N-CA-C	5.42	117.13	108.89
1	L	775	GLN	CA-CB-CG	-5.42	103.25	114.10
1	P	619	GLU	N-CA-C	-5.42	105.01	111.03
1	D	385	ASN	OD1-CG-ND2	5.42	128.02	122.60
1	N	950	GLN	CB-CA-C	5.42	117.93	110.34
1	F	583	ASN	CA-C-O	5.42	123.91	119.36
1	A	271	THR	N-CA-CB	5.42	119.27	110.77
1	C	376	ILE	N-CA-CB	5.42	116.89	110.55
1	G	342	LEU	CB-CA-C	-5.42	102.11	110.78
1	L	787	ALA	CA-C-N	5.42	126.61	119.84
1	L	787	ALA	C-N-CA	5.42	126.61	119.84
1	B	999	TRP	CA-C-O	5.42	124.91	118.79
1	G	516	PRO	CB-CA-C	-5.42	104.13	111.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	928	PRO	CB-CA-C	-5.41	102.63	111.56
1	I	31	PRO	N-CA-CB	5.41	108.33	103.08
1	L	382	ASN	CA-CB-CG	-5.41	107.19	112.60
1	P	380	LYS	CA-C-N	5.41	127.85	120.54
1	P	380	LYS	C-N-CA	5.41	127.85	120.54
1	F	118	ASN	CA-CB-CG	5.41	118.01	112.60
1	J	53	SER	N-CA-C	5.41	118.36	109.76
1	P	906	TYR	CB-CA-C	5.41	117.38	109.48
1	L	118	ASN	CA-CB-CG	5.41	118.01	112.60
1	M	787	ALA	CA-C-N	5.41	126.60	119.84
1	M	787	ALA	C-N-CA	5.41	126.60	119.84
1	M	979	GLU	N-CA-CB	5.41	119.00	110.56
1	N	766	SER	N-CA-C	5.41	119.72	113.18
1	I	938	ARG	N-CA-CB	5.41	119.71	110.57
1	J	931	PHE	CB-CA-C	5.41	115.84	110.33
1	P	261	TRP	N-CA-C	5.41	117.33	108.52
1	G	878	HIS	ND1-CE1-NE2	5.40	113.80	108.40
1	J	68	ALA	N-CA-C	-5.40	106.43	114.64
1	D	101	THR	N-CA-CB	5.40	120.95	111.55
1	H	717	TRP	N-CA-C	5.40	117.60	109.23
1	N	373	VAL	O-C-N	5.40	127.20	121.91
1	O	549	PHE	CA-CB-CG	-5.40	108.40	113.80
1	G	103	VAL	N-CA-CB	-5.40	106.22	111.57
1	I	455	ILE	CA-C-O	-5.40	115.88	120.96
1	A	728	VAL	CA-C-N	-5.40	114.84	122.94
1	A	728	VAL	C-N-CA	-5.40	114.84	122.94
1	G	234	ASP	CA-CB-CG	-5.40	107.20	112.60
1	L	40	GLU	N-CA-C	5.40	117.86	111.33
1	B	823	LEU	N-CA-C	-5.40	107.35	114.31
1	L	343	LEU	N-CA-C	5.39	118.28	109.59
1	A	429	ASP	CB-CA-C	5.39	116.16	110.17
1	I	157	ARG	N-CA-C	5.39	117.52	108.73
1	O	127	PHE	CA-CB-CG	-5.39	108.41	113.80
1	K	76	CYS	N-CA-C	5.39	118.24	109.24
1	P	546	LEU	N-CA-CB	5.39	119.59	110.49
1	A	105	TYR	CA-C-N	5.39	126.10	120.12
1	A	105	TYR	C-N-CA	5.39	126.10	120.12
1	B	835	LEU	N-CA-C	5.39	117.17	108.34
1	B	857	ARG	CA-C-N	5.39	129.22	122.43
1	B	857	ARG	C-N-CA	5.39	129.22	122.43
1	C	747	PHE	CA-C-O	-5.39	114.54	120.36
1	E	472	TYR	O-C-N	5.39	127.62	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	878	HIS	CA-C-N	5.39	125.15	119.76
1	E	878	HIS	C-N-CA	5.39	125.15	119.76
1	I	117	GLU	CA-C-N	-5.39	116.53	123.16
1	I	117	GLU	C-N-CA	-5.39	116.53	123.16
1	K	158	TRP	CA-C-N	-5.39	117.64	123.08
1	K	158	TRP	C-N-CA	-5.39	117.64	123.08
1	P	119	PRO	N-CA-CB	5.39	108.91	103.25
1	P	244	VAL	CA-C-N	-5.39	115.21	123.07
1	P	244	VAL	C-N-CA	-5.39	115.21	123.07
1	P	369	GLU	O-C-N	5.39	128.72	122.20
1	P	974	HIS	N-CA-CB	5.39	118.13	110.16
1	E	860	GLY	CA-C-N	5.38	128.24	120.38
1	E	860	GLY	C-N-CA	5.38	128.24	120.38
1	I	168	PRO	CB-CA-C	-5.38	104.52	111.46
1	M	385	ASN	CA-CB-CG	-5.38	107.22	112.60
1	H	510	GLN	CA-C-N	5.38	126.57	119.84
1	H	510	GLN	C-N-CA	5.38	126.57	119.84
1	L	36	TRP	CB-CA-C	-5.38	101.77	109.84
1	M	991	MET	CA-C-N	5.38	125.21	120.10
1	M	991	MET	C-N-CA	5.38	125.21	120.10
1	P	957	PHE	N-CA-C	5.38	116.45	108.86
1	D	186	VAL	N-CA-CB	-5.38	103.93	111.25
1	G	168	PRO	CB-CA-C	-5.38	103.26	110.85
1	J	106	PRO	CA-C-N	-5.38	116.40	122.48
1	J	106	PRO	C-N-CA	-5.38	116.40	122.48
1	L	997	ASP	CB-CG-OD2	-5.38	106.02	118.40
1	K	841	ALA	CA-C-N	-5.38	114.13	122.09
1	K	841	ALA	C-N-CA	-5.38	114.13	122.09
1	N	348	PRO	CB-CA-C	-5.38	107.35	111.87
1	D	628	GLN	CA-C-O	-5.38	114.48	120.66
1	G	58	TRP	CA-C-N	-5.38	114.13	122.09
1	G	58	TRP	C-N-CA	-5.38	114.13	122.09
1	P	127	PHE	N-CA-C	5.38	116.70	108.42
1	P	141	ILE	N-CA-C	5.38	115.60	107.80
1	B	878	HIS	CA-C-O	5.38	124.23	119.71
1	F	4	THR	N-CA-CB	5.38	118.58	110.30
1	P	143	PHE	CA-CB-CG	-5.38	108.42	113.80
1	O	322	LEU	N-CA-C	5.38	118.24	110.28
1	P	524	LEU	CB-CA-C	-5.38	100.69	110.63
1	D	744	GLU	N-CA-C	-5.37	105.86	112.90
1	E	574	SER	CA-C-O	5.37	127.20	121.45
1	F	1000	SER	N-CA-C	5.37	115.04	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	1022	GLN	CB-CA-C	-5.37	107.68	114.40
1	O	81	ALA	CA-C-N	-5.37	113.46	122.92
1	O	81	ALA	C-N-CA	-5.37	113.46	122.92
1	N	341	LEU	N-CA-C	5.37	117.18	108.26
1	I	657	ALA	N-CA-C	5.37	117.25	108.76
1	A	159	VAL	CB-CA-C	-5.37	106.27	111.05
1	B	217	LYS	CA-C-N	5.37	125.37	119.89
1	B	217	LYS	C-N-CA	5.37	125.37	119.89
1	O	771	GLY	N-CA-C	-5.37	101.82	110.95
1	P	86	VAL	CB-CA-C	5.37	115.34	110.13
1	D	782	ASP	CA-CB-CG	-5.37	107.23	112.60
1	B	150	PHE	CA-CB-CG	-5.37	108.44	113.80
1	E	989	PHE	CA-CB-CG	-5.37	108.44	113.80
1	F	143	PHE	CB-CA-C	-5.37	102.72	111.68
1	G	687	GLN	CA-C-N	5.37	126.55	119.84
1	G	687	GLN	C-N-CA	5.37	126.55	119.84
1	L	927	THR	CA-C-N	5.37	126.55	119.84
1	L	927	THR	C-N-CA	5.37	126.55	119.84
1	L	460	ASN	N-CA-C	5.36	117.92	108.75
1	P	635	THR	N-CA-C	5.36	117.49	108.96
1	I	1007	PHE	CA-CB-CG	-5.36	108.44	113.80
1	N	531	ARG	CD-NE-CZ	-5.36	116.90	124.40
1	C	606	LEU	N-CA-C	-5.36	106.74	113.28
1	H	975	LEU	CA-C-N	-5.36	114.63	122.19
1	H	975	LEU	C-N-CA	-5.36	114.63	122.19
1	M	914	CYS	N-CA-CB	5.36	119.36	110.63
1	A	614	HIS	CA-CB-CG	5.36	119.16	113.80
1	C	375	ASP	CA-CB-CG	5.36	117.96	112.60
1	D	593	GLY	N-CA-C	-5.36	107.88	115.43
1	J	54	LEU	CA-C-O	5.36	125.91	119.59
1	K	329	ASP	CA-C-N	-5.36	115.54	122.99
1	K	329	ASP	C-N-CA	-5.36	115.54	122.99
1	P	400	THR	N-CA-C	-5.36	105.34	111.07
1	I	280	ASP	N-CA-C	5.35	115.19	108.45
1	H	4	THR	CA-C-N	5.35	131.78	121.18
1	H	4	THR	C-N-CA	5.35	131.78	121.18
1	M	447	ASP	N-CA-CB	5.35	117.83	110.07
1	O	360	HIS	CA-CB-CG	-5.35	108.45	113.80
1	B	399	TYR	N-CA-CB	5.35	118.08	110.16
1	A	977	HIS	CA-CB-CG	-5.35	108.45	113.80
1	E	30	HIS	CA-CB-CG	-5.35	108.45	113.80
1	N	307	ASN	CA-CB-CG	-5.35	107.25	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	864	MET	N-CA-C	5.35	118.44	107.69
1	M	258	VAL	CB-CA-C	5.34	116.50	110.41
1	N	968	MET	N-CA-C	5.34	117.86	111.71
1	B	784	PHE	CA-CB-CG	-5.34	108.46	113.80
1	I	583	ASN	CA-C-N	5.34	125.24	119.85
1	I	583	ASN	C-N-CA	5.34	125.24	119.85
1	L	97	ALA	N-CA-C	5.34	117.36	109.62
1	A	118	ASN	O-C-N	-5.34	117.01	121.44
1	H	612	THR	N-CA-C	-5.34	102.94	110.31
1	D	365	GLN	OE1-CD-NE2	5.34	127.94	122.60
1	F	283	GLY	N-CA-C	5.34	116.76	111.21
1	H	615	PRO	N-CA-CB	5.34	109.18	103.52
1	O	221	GLN	N-CA-CB	-5.34	102.95	111.43
1	P	960	SER	CA-C-N	5.34	128.39	120.17
1	P	960	SER	C-N-CA	5.34	128.39	120.17
1	G	118	ASN	CB-CA-C	5.33	119.18	111.02
1	D	60	PHE	N-CA-C	5.33	118.13	108.69
1	J	471	LEU	N-CA-C	5.33	117.84	111.71
1	K	345	ASN	CA-C-N	-5.33	117.10	123.44
1	K	345	ASN	C-N-CA	-5.33	117.10	123.44
1	K	447	ASP	N-CA-C	5.33	120.06	113.50
1	N	817	GLN	CA-C-N	-5.33	113.80	121.42
1	N	817	GLN	C-N-CA	-5.33	113.80	121.42
1	J	101	THR	N-CA-CB	5.33	119.32	110.63
1	L	423	MET	CA-C-N	5.33	131.72	121.54
1	L	423	MET	C-N-CA	5.33	131.72	121.54
1	E	79	PRO	O-C-N	5.33	128.19	122.17
1	L	217	LYS	O-C-N	5.33	126.67	121.66
1	K	19	PRO	CA-C-N	5.33	125.86	120.00
1	K	19	PRO	C-N-CA	5.33	125.86	120.00
1	L	932	PRO	N-CA-C	5.33	119.45	111.14
1	N	927	THR	CA-C-N	5.33	126.50	119.84
1	N	927	THR	C-N-CA	5.33	126.50	119.84
1	H	467	ASN	CA-CB-CG	5.33	117.93	112.60
1	H	903	GLN	N-CA-C	5.33	118.40	110.52
1	I	729	THR	N-CA-C	5.33	118.17	109.59
1	K	566	PHE	CA-C-O	5.33	126.16	120.46
1	M	385	ASN	CB-CA-C	-5.33	100.05	110.11
1	A	54	LEU	N-CA-C	-5.32	106.10	112.59
1	G	746	ASP	N-CA-CB	5.32	119.49	111.35
1	G	886	CYS	CA-C-N	-5.32	115.45	122.85
1	G	886	CYS	C-N-CA	-5.32	115.45	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	681	GLU	CA-C-O	5.32	126.06	120.36
1	F	424	ASN	N-CA-C	5.32	117.50	111.11
1	M	818	ALA	CA-C-N	-5.32	115.49	122.99
1	M	818	ALA	C-N-CA	-5.32	115.49	122.99
1	B	264	GLU	N-CA-C	-5.32	106.84	113.38
1	K	868	VAL	N-CA-C	5.32	115.97	108.36
1	L	585	TRP	N-CA-C	5.32	117.84	108.75
1	C	448	ARG	N-CA-C	5.32	119.25	112.34
1	D	583	ASN	CB-CA-C	5.32	116.36	108.87
1	E	459	GLY	N-CA-C	5.32	117.22	110.20
1	E	574	SER	N-CA-CB	-5.32	103.16	111.56
1	G	158	TRP	CA-CB-CG	-5.32	103.50	113.60
1	H	62	TRP	N-CA-C	5.32	118.40	109.95
1	N	447	ASP	N-CA-CB	5.32	118.36	110.49
1	I	427	THR	N-CA-C	5.31	119.25	112.87
1	N	104	THR	N-CA-C	5.31	117.88	109.96
1	F	402	CYS	N-CA-CB	5.31	118.40	110.22
1	I	505	ARG	N-CA-C	5.31	118.88	109.96
1	P	460	ASN	N-CA-C	5.31	117.26	109.24
1	B	787	ALA	O-C-N	5.31	127.42	121.32
1	E	896	ASN	CA-CB-CG	5.31	117.91	112.60
1	I	415	ILE	N-CA-C	5.31	116.36	107.18
1	N	305	ILE	O-C-N	5.31	127.15	121.10
1	O	698	VAL	CB-CA-C	-5.31	103.50	110.98
1	C	288	ARG	CD-NE-CZ	-5.31	116.97	124.40
1	I	889	ALA	CA-C-O	5.31	125.90	119.11
1	L	300	LEU	N-CA-C	5.31	117.53	110.53
1	F	550	ALA	CA-C-N	5.30	127.39	120.28
1	F	550	ALA	C-N-CA	5.30	127.39	120.28
1	A	1004	SER	N-CA-CB	5.30	118.06	110.06
1	K	403	ASP	N-CA-CB	5.30	117.91	110.12
1	K	759	ASN	N-CA-CB	5.30	118.12	109.69
1	N	1003	VAL	CA-C-O	5.30	127.22	120.75
1	P	168	PRO	N-CA-CB	5.30	107.96	103.35
1	E	774	LYS	N-CA-C	-5.30	103.89	110.41
1	H	448	ARG	CA-C-N	-5.30	111.67	120.68
1	H	448	ARG	C-N-CA	-5.30	111.67	120.68
1	P	781	ARG	N-CA-C	5.30	117.73	109.52
1	P	463	GLY	CA-C-N	-5.30	115.30	122.77
1	P	463	GLY	C-N-CA	-5.30	115.30	122.77
1	D	78	LEU	CA-C-O	5.30	124.73	119.75
1	L	512	PHE	CB-CA-C	-5.30	101.47	109.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	475	ILE	N-CA-C	-5.30	105.55	110.53
1	P	63	PHE	O-C-N	5.30	127.46	122.06
1	D	353	GLY	N-CA-C	5.29	118.87	111.14
1	L	516	PRO	CB-CA-C	-5.29	104.45	111.23
1	L	534	ILE	CA-C-O	-5.29	115.01	120.25
1	H	211	ASP	CA-CB-CG	-5.29	107.31	112.60
1	I	414	ASN	CA-CB-CG	5.29	117.89	112.60
1	M	728	VAL	N-CA-CB	5.29	119.15	112.22
1	N	79	PRO	N-CA-C	-5.29	105.90	113.47
1	N	285	TYR	N-CA-CB	5.29	118.62	110.21
1	E	1016	TYR	N-CA-C	5.29	117.23	109.24
1	F	90	TRP	N-CA-C	5.29	117.12	111.36
1	P	985	ASN	N-CA-CB	5.29	119.56	110.68
1	B	970	THR	N-CA-CB	-5.29	101.44	110.16
1	M	839	ALA	CB-CA-C	-5.29	104.22	111.51
1	D	252	ASP	CA-CB-CG	-5.28	107.32	112.60
1	H	386	ALA	N-CA-C	5.28	117.28	108.99
1	J	95	TYR	N-CA-CB	5.28	117.98	110.06
1	B	531	ARG	CD-NE-CZ	-5.28	117.00	124.40
1	B	935	ASN	N-CA-C	5.28	114.81	107.73
1	D	936	GLY	CA-C-O	5.28	124.64	119.04
1	I	685	LEU	N-CA-C	5.28	116.58	109.24
1	N	449	ASN	N-CA-C	5.28	119.36	113.02
1	P	737	ILE	CB-CA-C	5.28	120.97	111.36
1	E	478	VAL	N-CA-C	5.28	116.00	110.62
1	G	150	PHE	N-CA-C	5.28	116.43	108.46
1	H	770	ILE	N-CA-C	-5.28	98.37	109.34
1	M	166	ARG	N-CA-C	5.28	120.72	113.97
1	K	236	SER	N-CA-CB	5.27	118.42	110.30
1	L	842	TRP	CA-C-N	-5.27	114.04	122.53
1	L	842	TRP	C-N-CA	-5.27	114.04	122.53
1	A	1018	LEU	N-CA-CB	-5.27	101.46	111.00
1	D	931	PHE	CB-CA-C	5.27	116.21	110.15
1	E	556	PHE	N-CA-CB	5.27	117.66	110.01
1	F	905	ASN	N-CA-C	5.27	117.20	108.13
1	L	832	ASP	CA-CB-CG	-5.27	107.33	112.60
1	H	612	THR	N-CA-CB	5.27	118.80	110.11
1	L	218	PRO	N-CA-CB	5.27	108.34	103.39
1	A	854	LYS	N-CA-C	5.27	117.87	109.81
1	F	764	PHE	N-CA-C	5.27	117.82	109.50
1	N	118	ASN	CA-CB-CG	5.27	117.87	112.60
1	P	416	GLU	N-CA-CB	5.27	119.28	110.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	274	PHE	CA-CB-CG	-5.27	108.53	113.80
1	K	645	ARG	N-CA-C	5.27	117.66	110.55
1	C	31	PRO	N-CA-C	-5.26	104.28	110.70
1	C	702	GLN	O-C-N	5.26	126.14	121.19
1	E	612	THR	O-C-N	5.26	127.81	121.60
1	L	385	ASN	O-C-N	5.26	128.76	121.92
1	O	142	ILE	N-CA-CB	-5.26	105.04	111.67
1	B	670	LEU	CA-C-N	-5.26	115.13	123.23
1	B	670	LEU	C-N-CA	-5.26	115.13	123.23
1	N	907	PRO	CA-C-N	-5.26	114.26	122.73
1	N	907	PRO	C-N-CA	-5.26	114.26	122.73
1	O	298	PRO	CB-CA-C	-5.26	104.66	111.39
1	E	570	TRP	N-CA-C	5.26	116.82	111.14
1	M	927	THR	CB-CA-C	5.26	116.01	110.17
1	O	166	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	F	931	PHE	CA-C-N	5.26	125.16	119.85
1	F	931	PHE	C-N-CA	5.26	125.16	119.85
1	G	895	VAL	CA-C-N	-5.26	113.33	122.37
1	G	895	VAL	C-N-CA	-5.26	113.33	122.37
1	G	95	TYR	N-CA-CB	5.25	117.84	110.12
1	F	855	THR	CA-C-N	-5.25	115.31	122.93
1	F	855	THR	C-N-CA	-5.25	115.31	122.93
1	O	104	THR	N-CA-C	5.25	117.84	109.96
1	F	512	PHE	CA-CB-CG	-5.25	108.55	113.80
1	G	95	TYR	N-CA-C	5.25	117.00	111.28
1	H	38	ASN	N-CA-C	5.25	116.75	107.61
1	K	844	HIS	CA-CB-CG	-5.25	108.55	113.80
1	N	424	ASN	CB-CA-C	-5.25	102.60	110.90
1	A	700	VAL	N-CA-CB	5.25	118.39	111.25
1	G	430	PRO	N-CA-CB	5.25	109.18	103.30
1	F	224	ASP	CA-CB-CG	5.25	117.85	112.60
1	F	446	ARG	N-CA-C	5.25	118.15	111.69
1	L	1004	SER	N-CA-CB	5.25	117.73	110.17
1	K	238	ALA	N-CA-C	5.25	118.14	109.85
1	N	713	HIS	CA-C-N	-5.25	115.60	122.37
1	N	713	HIS	C-N-CA	-5.25	115.60	122.37
1	O	478	VAL	N-CA-C	5.25	117.61	111.05
1	O	613	PRO	N-CA-C	5.25	119.45	111.11
1	J	313	VAL	N-CA-C	5.24	114.30	106.85
1	L	384	PHE	CA-CB-CG	-5.24	108.56	113.80
1	N	949	HIS	ND1-CG-CD2	5.24	111.34	106.10
1	O	669	PRO	N-CA-CB	5.24	108.21	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	423	MET	CA-C-N	5.24	130.32	121.14
1	P	423	MET	C-N-CA	5.24	130.32	121.14
1	A	531	ARG	NE-CZ-NH1	-5.24	116.26	121.50
1	E	37	ARG	N-CA-CB	5.24	122.03	111.60
1	C	166	ARG	N-CA-C	5.24	119.77	113.17
1	C	221	GLN	N-CA-CB	-5.24	102.56	111.31
1	G	571	VAL	CB-CA-C	-5.24	102.43	110.50
1	L	206	SER	N-CA-CB	5.24	120.54	111.69
1	M	314	GLU	N-CA-CB	5.24	119.03	110.39
1	A	655	MET	N-CA-C	5.24	117.96	108.69
1	F	842	TRP	CA-C-N	-5.24	113.98	122.36
1	F	842	TRP	C-N-CA	-5.24	113.98	122.36
1	L	143	PHE	CB-CA-C	-5.24	102.93	111.68
1	E	127	PHE	N-CA-C	5.24	116.48	108.42
1	E	362	LEU	CB-CA-C	-5.24	101.24	111.03
1	J	65	ALA	CA-C-N	5.24	126.38	119.84
1	J	65	ALA	C-N-CA	5.24	126.38	119.84
1	E	467	ASN	CB-CA-C	5.23	120.72	110.67
1	J	18	ASN	CA-C-N	5.23	124.85	119.56
1	J	18	ASN	C-N-CA	5.23	124.85	119.56
1	J	506	VAL	CB-CA-C	-5.23	105.27	111.97
1	N	661	LYS	N-CA-CB	5.23	117.65	110.01
1	C	97	ALA	N-CA-C	5.23	117.19	110.39
1	N	150	PHE	N-CA-C	5.23	116.36	108.46
1	A	418	HIS	ND1-CG-CD2	5.23	111.33	106.10
1	B	209	PHE	CA-CB-CG	-5.23	108.57	113.80
1	D	9	VAL	N-CA-CB	-5.23	104.36	110.64
1	H	118	ASN	CA-C-O	5.23	125.22	120.09
1	F	460	ASN	N-CA-C	5.23	117.34	109.23
1	I	763	GLY	CA-C-N	-5.23	115.10	122.94
1	I	763	GLY	C-N-CA	-5.23	115.10	122.94
1	M	892	ALA	N-CA-C	5.23	118.22	109.96
1	H	571	VAL	N-CA-C	5.23	115.80	108.17
1	J	636	ILE	CA-C-N	-5.23	115.69	123.11
1	J	636	ILE	C-N-CA	-5.23	115.69	123.11
1	K	449	ASN	CA-CB-CG	5.23	117.83	112.60
1	N	364	GLY	CA-C-N	-5.23	114.31	122.73
1	N	364	GLY	C-N-CA	-5.23	114.31	122.73
1	P	395	HIS	CA-C-N	5.23	126.37	119.84
1	P	395	HIS	C-N-CA	5.23	126.37	119.84
1	A	925	MET	N-CA-CB	5.23	118.83	110.73
1	F	386	ALA	N-CA-CB	-5.23	103.16	111.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	168	PRO	CB-CA-C	-5.22	104.54	111.23
1	D	379	MET	CA-C-N	-5.22	113.65	120.44
1	D	379	MET	C-N-CA	-5.22	113.65	120.44
1	L	562	LEU	N-CA-C	-5.22	100.22	108.73
1	L	606	LEU	N-CA-C	-5.22	106.59	113.17
1	M	746	ASP	N-CA-C	5.22	115.25	107.88
1	A	424	ASN	CB-CA-C	-5.22	99.73	110.38
1	F	282	ARG	CA-C-N	-5.22	117.25	122.63
1	F	282	ARG	C-N-CA	-5.22	117.25	122.63
1	G	285	TYR	CA-C-O	5.22	126.64	120.58
1	M	395	HIS	CA-C-O	5.22	123.48	119.46
1	P	246	MET	N-CA-CB	5.22	118.39	110.45
1	D	352	ARG	CA-C-N	-5.22	117.43	121.82
1	D	352	ARG	C-N-CA	-5.22	117.43	121.82
1	F	579	ASP	CA-CB-CG	-5.22	107.38	112.60
1	G	363	HIS	CA-CB-CG	-5.22	108.58	113.80
1	A	855	THR	N-CA-CB	5.22	119.20	110.59
1	D	321	THR	N-CA-C	5.22	117.26	109.59
1	F	274	PHE	CA-CB-CG	-5.22	108.58	113.80
1	F	443	MET	CG-SD-CE	5.22	112.38	100.90
1	L	931	PHE	CA-C-N	5.22	125.14	119.76
1	L	931	PHE	C-N-CA	5.22	125.14	119.76
1	E	45	ASP	CA-CB-CG	-5.22	107.38	112.60
1	E	951	TRP	N-CA-CB	5.22	118.70	110.56
1	P	517	LYS	N-CA-CB	5.22	119.38	110.87
1	B	448	ARG	CD-NE-CZ	-5.22	117.10	124.40
1	B	823	LEU	CA-C-O	5.22	124.56	118.77
1	C	99	ILE	CA-C-N	-5.22	115.44	122.95
1	C	99	ILE	C-N-CA	-5.22	115.44	122.95
1	G	638	VAL	CB-CA-C	-5.22	103.74	110.84
1	K	627	PHE	CA-CB-CG	-5.22	108.58	113.80
1	L	40	GLU	N-CA-CB	5.22	117.88	110.06
1	A	593	GLY	N-CA-C	-5.21	108.12	115.32
1	C	460	ASN	N-CA-CB	-5.21	101.83	111.53
1	D	103	VAL	N-CA-CB	-5.21	105.67	111.41
1	H	323	ILE	CB-CA-C	-5.21	104.30	111.65
1	M	702	GLN	CB-CA-C	5.21	115.13	110.44
1	N	144	ASP	N-CA-C	5.21	117.71	111.71
1	G	99	ILE	CA-C-N	-5.21	115.44	122.95
1	G	99	ILE	C-N-CA	-5.21	115.44	122.95
1	G	938	ARG	CD-NE-CZ	5.21	131.70	124.40
1	D	927	THR	CB-CA-C	5.21	117.43	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	682	LEU	N-CA-C	5.21	116.96	109.04
1	N	449	ASN	CA-CB-CG	5.21	117.81	112.60
1	O	506	VAL	N-CA-C	5.21	115.94	110.62
1	A	41	GLU	CB-CG-CD	-5.21	103.74	112.60
1	A	363	HIS	CA-CB-CG	-5.21	108.59	113.80
1	E	574	SER	CB-CA-C	-5.21	99.26	111.09
1	M	957	PHE	N-CA-C	5.21	118.08	109.85
1	F	167	LEU	CA-C-N	5.21	125.21	119.90
1	F	167	LEU	C-N-CA	5.21	125.21	119.90
1	F	464	HIS	CB-CA-C	-5.21	102.35	110.74
1	G	957	PHE	N-CA-C	5.21	116.72	108.96
1	H	450	HIS	CA-CB-CG	5.21	119.01	113.80
1	J	338	GLU	N-CA-C	5.21	116.81	107.80
1	N	652	LEU	N-CA-C	5.21	117.24	108.96
1	P	221	GLN	N-CA-C	5.21	117.78	109.81
1	F	737	ILE	CB-CA-C	5.21	114.43	109.33
1	P	285	TYR	CA-CB-CG	-5.21	104.53	113.90
1	B	897	TRP	N-CA-C	5.20	116.71	108.96
1	F	206	SER	N-CA-C	5.20	116.11	107.73
1	G	527	PRO	N-CA-CB	5.20	108.71	103.25
1	H	221	GLN	N-CA-C	5.20	116.89	109.14
1	L	127	PHE	N-CA-C	5.20	116.89	109.14
1	N	754	LYS	N-CA-C	5.20	117.45	109.07
1	O	781	ARG	N-CA-C	5.20	117.10	109.24
1	H	188	VAL	N-CA-C	5.20	115.76	108.89
1	O	482	ARG	CA-C-N	5.20	125.18	120.03
1	O	482	ARG	C-N-CA	5.20	125.18	120.03
1	P	400	THR	O-C-N	5.20	127.43	122.07
1	P	766	SER	N-CA-CB	5.20	118.06	110.47
1	E	424	ASN	CB-CA-C	-5.20	102.72	110.88
1	F	704	ASN	CA-CB-CG	-5.20	107.40	112.60
1	N	313	VAL	CB-CA-C	-5.20	104.23	110.99
1	D	209	PHE	CA-CB-CG	-5.20	108.60	113.80
1	E	154	CYS	N-CA-CB	5.20	119.55	110.81
1	M	549	PHE	CA-CB-CG	-5.20	108.60	113.80
1	N	759	ASN	CA-CB-CG	5.20	117.80	112.60
1	M	17	GLU	CB-CA-C	5.20	119.37	110.85
1	M	394	ASN	CA-CB-CG	5.20	117.80	112.60
1	G	563	GLN	N-CA-C	5.20	118.93	112.59
1	M	809	ARG	CA-C-N	5.20	127.51	120.44
1	M	809	ARG	C-N-CA	5.20	127.51	120.44
1	P	532	PRO	N-CA-CB	5.20	108.72	102.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	352	ARG	CB-CA-C	-5.19	104.16	112.05
1	C	163	GLN	N-CA-CB	5.19	120.72	111.69
1	E	655	MET	CA-C-N	5.19	128.86	122.37
1	E	655	MET	C-N-CA	5.19	128.86	122.37
1	E	853	ARG	CB-CA-C	-5.19	103.04	110.62
1	I	802	ASP	CA-CB-CG	-5.19	107.41	112.60
1	L	502	MET	N-CA-CB	5.19	118.72	110.57
1	N	372	MET	N-CA-C	5.19	117.61	111.33
1	C	286	ALA	CB-CA-C	-5.19	99.79	110.38
1	G	106	PRO	CB-CA-C	-5.19	104.48	111.85
1	K	13	ARG	N-CA-C	5.19	117.84	111.82
1	N	508	GLU	N-CA-CB	-5.19	101.92	111.37
1	N	1004	SER	N-CA-C	5.19	117.96	110.28
1	O	300	LEU	N-CA-C	5.19	117.76	110.23
1	A	927	THR	CA-C-N	5.19	126.33	119.84
1	A	927	THR	C-N-CA	5.19	126.33	119.84
1	D	414	ASN	CA-CB-CG	5.19	117.79	112.60
1	I	561	ARG	N-CA-C	5.19	119.59	113.16
1	J	793	ILE	N-CA-C	5.19	116.66	111.00
1	L	624	GLN	CA-C-N	-5.19	114.41	122.09
1	L	624	GLN	C-N-CA	-5.19	114.41	122.09
1	D	933	SER	N-CA-C	5.19	114.68	107.73
1	F	118	ASN	CA-C-O	5.19	126.08	120.63
1	G	179	ALA	N-CA-C	-5.19	101.24	109.96
1	H	287	ASP	CA-CB-CG	-5.19	107.41	112.60
1	O	747	PHE	CA-CB-CG	5.19	118.99	113.80
1	I	69	VAL	N-CA-CB	5.19	115.78	110.23
1	O	773	LYS	N-CA-C	5.19	116.76	108.41
1	B	920	LEU	O-C-N	5.18	125.44	121.65
1	A	568	TRP	CA-CB-CG	-5.18	103.75	113.60
1	L	127	PHE	CA-CB-CG	-5.18	108.62	113.80
1	L	142	ILE	N-CA-C	5.18	115.04	107.37
1	P	282	ARG	N-CA-CB	5.18	119.11	110.41
1	E	776	LEU	N-CA-C	5.18	117.87	109.06
1	C	612	THR	N-CA-C	-5.18	103.16	110.31
1	H	409	VAL	CB-CA-C	-5.18	102.84	110.82
1	K	359	HIS	N-CA-C	5.18	117.51	108.76
1	O	857	ARG	CA-C-N	5.18	129.05	122.37
1	O	857	ARG	C-N-CA	5.18	129.05	122.37
1	E	674	PRO	N-CA-CB	5.18	107.92	103.31
1	B	795	VAL	N-CA-C	-5.17	107.25	112.17
1	J	297	ASN	CB-CA-C	-5.17	106.50	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	770	ILE	N-CA-C	-5.17	98.61	106.42
1	E	8	ALA	CA-C-N	5.17	127.19	120.88
1	E	8	ALA	C-N-CA	5.17	127.19	120.88
1	P	896	ASN	CB-CA-C	5.17	120.19	109.38
1	B	770	ILE	N-CA-C	-5.17	98.50	106.72
1	H	18	ASN	CA-CB-CG	-5.17	107.43	112.60
1	I	955	PHE	CA-CB-CG	-5.17	108.63	113.80
1	K	931	PHE	O-C-N	5.17	127.10	121.36
1	N	385	ASN	OD1-CG-ND2	5.17	127.77	122.60
1	G	350	LEU	N-CA-C	-5.17	99.99	108.41
1	I	118	ASN	CA-CB-CG	5.17	117.77	112.60
1	A	47	PRO	N-CA-CB	5.16	107.65	103.36
1	J	472	TYR	N-CA-C	-5.16	105.56	111.14
1	E	98	PRO	N-CA-CB	5.16	107.79	103.25
1	E	456	TRP	N-CA-CB	5.16	119.81	110.83
1	I	864	MET	CA-C-N	-5.16	115.72	123.00
1	I	864	MET	C-N-CA	-5.16	115.72	123.00
1	O	612	THR	CA-C-N	5.16	125.16	119.89
1	O	612	THR	C-N-CA	5.16	125.16	119.89
1	L	744	GLU	N-CA-C	-5.16	106.67	113.12
1	P	955	PHE	CA-CB-CG	-5.16	108.64	113.80
1	P	990	HIS	CA-CB-CG	-5.16	108.64	113.80
1	A	516	PRO	CA-C-O	-5.16	115.58	121.56
1	C	433	LEU	CA-C-O	5.16	123.34	118.34
1	I	447	ASP	CA-CB-CG	5.16	117.76	112.60
1	I	837	THR	N-CA-CB	-5.16	102.67	110.77
1	L	260	LEU	N-CA-CB	5.16	118.70	110.65
1	L	353	GLY	N-CA-C	5.16	120.62	112.06
1	P	382	ASN	CB-CA-C	5.16	117.62	111.22
1	C	825	CYS	N-CA-C	-5.16	101.47	109.72
1	B	938	ARG	CB-CA-C	5.16	118.08	110.14
1	C	804	ASN	CA-C-N	-5.16	113.55	120.87
1	C	804	ASN	C-N-CA	-5.16	113.55	120.87
1	F	832	ASP	CA-CB-CG	-5.16	107.44	112.60
1	H	725	ASN	CA-CB-CG	-5.16	107.44	112.60
1	I	424	ASN	CA-CB-CG	-5.16	107.44	112.60
1	J	854	LYS	CA-C-N	5.16	129.54	121.76
1	J	854	LYS	C-N-CA	5.16	129.54	121.76
1	L	583	ASN	CB-CA-C	5.16	116.50	108.61
1	P	816	TYR	N-CA-C	5.16	117.64	111.71
1	E	395	HIS	CA-C-N	5.15	126.28	119.84
1	E	395	HIS	C-N-CA	5.15	126.28	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	660	GLY	N-CA-C	-5.15	108.56	114.69
1	B	702	GLN	CA-C-O	5.15	123.88	119.71
1	C	681	GLU	N-CA-CB	5.15	118.66	110.16
1	N	394	ASN	CA-C-O	5.15	127.86	121.94
1	L	772	ASP	CA-C-N	5.15	128.64	121.02
1	L	772	ASP	C-N-CA	5.15	128.64	121.02
1	P	652	LEU	N-CA-C	5.15	117.01	108.20
1	P	814	GLY	N-CA-C	-5.15	107.90	114.85
1	G	855	THR	N-CA-CB	5.15	119.16	110.77
1	F	77	ASP	CA-CB-CG	-5.15	107.45	112.60
1	H	59	ARG	N-CA-CB	5.15	119.02	110.63
1	I	711	ALA	CB-CA-C	5.15	117.99	109.70
1	L	19	PRO	N-CA-C	-5.15	107.15	113.84
1	P	819	GLU	N-CA-CB	5.15	118.82	110.17
1	A	166	ARG	N-CA-C	5.15	121.33	113.61
1	B	981	GLY	CA-C-N	5.15	130.25	122.99
1	B	981	GLY	C-N-CA	5.15	130.25	122.99
1	M	167	LEU	O-C-N	5.15	126.56	121.57
1	N	673	ALA	CA-C-O	5.15	124.51	120.19
1	E	872	VAL	N-CA-C	5.14	115.99	108.53
1	E	996	ASP	N-CA-C	-5.14	106.98	113.20
1	I	351	ILE	N-CA-C	5.14	116.10	108.23
1	I	791	ASN	CA-CB-CG	-5.14	107.46	112.60
1	P	661	LYS	CB-CA-C	5.14	115.58	110.33
1	P	931	PHE	CB-CA-C	5.14	116.07	110.15
1	B	682	LEU	O-C-N	5.14	125.68	121.31
1	C	553	TRP	CA-CB-CG	-5.14	103.83	113.60
1	H	365	GLN	CB-CA-C	5.14	118.60	109.65
1	K	886	CYS	CA-C-N	-5.14	115.53	123.14
1	K	886	CYS	C-N-CA	-5.14	115.53	123.14
1	L	957	PHE	N-CA-C	5.14	115.84	108.74
1	P	583	ASN	CA-C-O	5.14	123.42	119.46
1	P	902	PRO	N-CA-CB	5.14	108.26	102.60
1	J	280	ASP	N-CA-C	5.14	114.82	108.19
1	O	19	PRO	N-CA-C	-5.14	107.71	114.03
1	O	383	ASN	N-CA-C	5.14	118.85	112.58
1	D	595	THR	O-C-N	5.14	126.76	121.72
1	F	348	PRO	CB-CA-C	-5.14	105.96	111.56
1	I	339	ASN	CA-CB-CG	-5.14	107.46	112.60
1	I	696	LEU	CA-C-N	-5.14	115.75	123.00
1	I	696	LEU	C-N-CA	-5.14	115.75	123.00
1	P	330	VAL	O-C-N	5.14	128.65	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	235	PHE	CA-CB-CG	-5.14	108.66	113.80
1	A	310	ARG	N-CA-CB	5.14	118.63	110.57
1	H	280	ASP	N-CA-C	5.14	114.92	108.45
1	H	506	VAL	CA-C-N	-5.14	113.91	122.08
1	H	506	VAL	C-N-CA	-5.14	113.91	122.08
1	C	114	VAL	CA-CB-CG1	5.13	119.13	110.40
1	I	515	VAL	N-CA-C	5.13	119.97	108.88
1	D	42	ALA	N-CA-C	-5.13	106.53	112.89
1	G	896	ASN	CA-CB-CG	5.13	117.73	112.60
1	J	557	ARG	CA-C-N	-5.13	114.18	122.24
1	J	557	ARG	C-N-CA	-5.13	114.18	122.24
1	I	634	GLN	N-CA-C	-5.13	106.33	112.59
1	K	837	THR	N-CA-C	5.13	117.34	107.44
1	P	28	ALA	O-C-N	5.13	128.70	122.85
1	E	455	ILE	CA-C-O	-5.13	115.85	121.28
1	F	632	SER	CB-CA-C	5.13	118.34	110.14
1	P	327	ALA	N-CA-C	5.13	115.81	108.74
1	A	756	TRP	CA-C-N	-5.12	115.25	122.94
1	A	756	TRP	C-N-CA	-5.12	115.25	122.94
1	E	384	PHE	CA-CB-CG	-5.12	108.67	113.80
1	I	788	PRO	N-CA-CB	5.12	107.62	103.32
1	I	856	TYR	N-CA-CB	5.12	118.94	110.69
1	M	990	HIS	CA-CB-CG	-5.12	108.67	113.80
1	E	703	PRO	N-CA-CB	5.12	108.63	103.25
1	F	960	SER	CB-CA-C	-5.12	101.36	111.91
1	H	262	GLN	N-CA-CB	5.12	120.09	110.56
1	J	725	ASN	CA-CB-CG	-5.12	107.48	112.60
1	A	295	VAL	N-CA-C	5.12	115.34	108.17
1	A	486	TYR	CB-CA-C	5.12	118.55	109.89
1	H	158	TRP	CA-C-N	-5.12	112.75	121.97
1	H	158	TRP	C-N-CA	-5.12	112.75	121.97
1	B	339	ASN	CA-CB-CG	5.12	117.72	112.60
1	F	996	ASP	CA-CB-CG	-5.12	107.48	112.60
1	M	701	VAL	CB-CA-C	-5.12	102.94	110.82
1	B	300	LEU	N-CA-C	5.12	118.05	110.48
1	D	341	LEU	CA-C-N	5.12	129.21	122.30
1	D	341	LEU	C-N-CA	5.12	129.21	122.30
1	F	854	LYS	N-CA-C	5.12	117.18	109.41
1	H	90	TRP	N-CA-C	5.11	117.52	111.33
1	M	122	CYS	N-CA-C	5.11	117.89	108.58
1	M	218	PRO	N-CA-CB	5.11	108.62	103.25
1	M	667	GLU	N-CA-CB	5.11	119.40	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	614	HIS	N-CA-C	-5.11	103.70	110.40
1	D	519	SER	O-C-N	-5.11	116.73	122.97
1	G	827	ALA	CB-CA-C	5.11	118.72	109.37
1	H	525	SER	CA-C-N	-5.11	112.91	120.68
1	H	525	SER	C-N-CA	-5.11	112.91	120.68
1	N	424	ASN	N-CA-CB	-5.11	102.66	110.07
1	A	210	ARG	N-CA-CB	5.11	119.90	111.62
1	A	283	GLY	N-CA-C	5.11	119.52	112.52
1	H	39	SER	CA-C-N	-5.11	113.80	120.44
1	H	39	SER	C-N-CA	-5.11	113.80	120.44
1	L	282	ARG	N-CA-C	5.11	119.23	113.15
1	C	509	ASP	CA-CB-CG	5.11	117.71	112.60
1	D	448	ARG	N-CA-C	5.11	118.98	112.34
1	I	754	LYS	N-CA-C	5.11	117.62	109.96
1	J	335	VAL	CA-C-O	-5.11	115.06	120.53
1	K	249	GLU	N-CA-C	5.11	117.62	108.17
1	K	445	GLN	O-C-N	5.11	127.54	122.12
1	K	450	HIS	CA-C-O	5.11	122.61	119.29
1	L	701	VAL	N-CA-C	5.11	115.84	108.48
1	G	249	GLU	CB-CA-C	-5.11	102.24	110.77
1	C	76	CYS	N-CA-C	5.11	117.72	109.40
1	G	302	SER	CA-C-N	-5.10	112.21	121.14
1	G	302	SER	C-N-CA	-5.10	112.21	121.14
1	O	307	ASN	CA-CB-CG	5.10	117.70	112.60
1	A	482	ARG	CB-CA-C	-5.10	103.02	109.65
1	H	583	ASN	O-C-N	5.10	127.62	121.60
1	C	931	PHE	CA-C-N	5.10	125.10	119.90
1	C	931	PHE	C-N-CA	5.10	125.10	119.90
1	G	350	LEU	N-CA-CB	5.10	118.61	110.65
1	G	991	MET	CA-C-N	5.10	126.00	120.44
1	G	991	MET	C-N-CA	5.10	126.00	120.44
1	L	429	ASP	CA-C-N	5.10	125.13	119.32
1	L	429	ASP	C-N-CA	5.10	125.13	119.32
1	P	553	TRP	CA-CB-CG	-5.10	103.91	113.60
1	D	684	GLU	N-CA-CB	5.10	117.38	109.48
1	J	761	GLN	CA-C-N	5.10	127.07	120.44
1	J	761	GLN	C-N-CA	5.10	127.07	120.44
1	K	748	CYS	N-CA-C	-5.10	102.52	110.42
1	M	833	ALA	O-C-N	5.10	128.39	123.29
1	E	1007	PHE	CA-CB-CG	-5.10	108.70	113.80
1	L	168	PRO	N-CA-CB	5.09	108.73	103.38
1	F	520	ILE	CA-C-N	-5.09	112.95	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	520	ILE	C-N-CA	-5.09	112.95	120.28
1	F	968	MET	CA-C-N	-5.09	114.17	122.26
1	F	968	MET	C-N-CA	-5.09	114.17	122.26
1	M	427	THR	N-CA-C	5.09	117.73	111.82
1	N	96	ASP	N-CA-CB	5.09	119.30	111.46
1	N	142	ILE	N-CA-C	5.09	115.31	107.77
1	F	508	GLU	CA-C-O	5.09	125.86	120.36
1	F	817	GLN	N-CA-C	5.09	116.55	110.44
1	J	807	VAL	CB-CA-C	5.09	118.39	111.88
1	A	881	ARG	N-CA-C	5.09	116.03	108.60
1	E	237	ARG	N-CA-CB	5.09	120.29	111.39
1	I	264	GLU	CA-C-O	5.09	125.23	119.18
1	E	163	GLN	CA-C-O	-5.08	115.82	121.51
1	E	544	ASN	CA-CB-CG	-5.08	107.52	112.60
1	G	328	CYS	CA-C-N	-5.08	114.00	122.64
1	G	328	CYS	C-N-CA	-5.08	114.00	122.64
1	K	927	THR	CA-C-N	5.08	126.19	119.84
1	K	927	THR	C-N-CA	5.08	126.19	119.84
1	H	209	PHE	CA-C-N	-5.08	114.27	122.81
1	H	209	PHE	C-N-CA	-5.08	114.27	122.81
1	B	941	THR	N-CA-CB	5.08	118.46	110.23
1	E	166	ARG	N-CA-C	5.08	117.94	111.69
1	K	183	ARG	N-CA-C	5.08	116.69	108.26
1	M	441	THR	N-CA-CB	-5.08	102.66	110.12
1	M	958	ASN	N-CA-CB	5.08	119.05	110.77
1	L	938	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	P	920	LEU	N-CA-C	5.08	116.47	108.55
1	A	519	SER	O-C-N	-5.07	116.26	123.01
1	J	111	PRO	N-CA-CB	5.07	108.00	103.08
1	L	534	ILE	N-CA-C	-5.07	100.22	107.78
1	M	641	GLU	N-CA-CB	5.07	119.31	111.39
1	M	979	GLU	CB-CA-C	5.07	118.17	109.80
1	L	584	PRO	CB-CA-C	-5.07	103.38	110.63
1	N	909	ARG	CA-C-N	-5.07	111.76	120.23
1	N	909	ARG	C-N-CA	-5.07	111.76	120.23
1	O	555	ALA	N-CA-C	-5.07	105.44	110.97
1	B	789	LEU	N-CA-CB	5.07	118.12	110.42
1	G	383	ASN	N-CA-C	5.07	119.41	113.23
1	L	47	PRO	CA-C-N	-5.07	116.00	123.00
1	L	47	PRO	C-N-CA	-5.07	116.00	123.00
1	A	932	PRO	N-CA-CB	5.07	108.07	103.15
1	C	106	PRO	N-CA-CB	5.07	108.86	103.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	826	THR	N-CA-C	5.07	117.68	109.06
1	K	43	ARG	N-CA-C	5.07	116.49	111.07
1	M	193	ASP	CA-CB-CG	5.07	117.67	112.60
1	P	471	LEU	CB-CA-C	5.07	119.20	110.79
1	F	313	VAL	N-CA-C	5.07	114.77	106.72
1	J	298	PRO	CB-CA-C	-5.07	104.34	110.98
1	K	244	VAL	N-CA-C	5.07	116.59	108.89
1	P	606	LEU	CB-CA-C	-5.07	101.61	110.17
1	D	97	ALA	N-CA-C	5.06	116.96	109.62
1	E	607	VAL	N-CA-CB	5.06	118.49	111.05
1	E	619	GLU	CB-CG-CD	5.06	121.21	112.60
1	G	520	ILE	N-CA-CB	5.06	116.80	110.47
1	K	115	PRO	CB-CA-C	-5.06	105.33	111.46
1	L	376	ILE	N-CA-CB	5.06	115.94	110.62
1	P	69	VAL	N-CA-CB	5.06	118.30	111.21
1	H	122	CYS	N-CA-C	5.06	117.53	108.17
1	D	612	THR	N-CA-C	-5.06	101.75	109.64
1	H	498	ILE	N-CA-CB	-5.06	102.58	111.39
1	I	842	TRP	CA-C-N	-5.06	114.65	122.59
1	I	842	TRP	C-N-CA	-5.06	114.65	122.59
1	N	69	VAL	N-CA-CB	5.06	114.79	110.08
1	A	155	ASN	CA-C-O	-5.06	115.67	121.54
1	D	957	PHE	N-CA-C	5.06	116.68	109.14
1	F	593	GLY	N-CA-C	-5.06	108.64	115.21
1	M	235	PHE	CA-CB-CG	-5.06	108.74	113.80
1	N	247	CYS	N-CA-C	-5.06	101.68	109.52
1	N	938	ARG	CB-CA-C	5.06	119.65	109.38
1	E	641	GLU	CA-C-O	5.06	125.45	119.48
1	D	576	ILE	CB-CA-C	-5.05	104.05	110.98
1	E	537	GLU	CB-CG-CD	-5.05	104.01	112.60
1	E	959	ILE	N-CA-CB	-5.05	102.44	112.24
1	M	642	TYR	CA-CB-CG	-5.05	104.80	113.90
1	O	108	THR	CA-C-N	-5.05	116.06	122.43
1	O	108	THR	C-N-CA	-5.05	116.06	122.43
1	C	769	TRP	N-CA-C	5.05	117.63	109.40
1	B	932	PRO	N-CA-CB	5.05	107.80	103.31
1	C	737	ILE	N-CA-C	5.05	114.72	109.01
1	D	936	GLY	CA-C-N	-5.05	113.78	120.90
1	D	936	GLY	C-N-CA	-5.05	113.78	120.90
1	G	469	ASP	CA-CB-CG	-5.05	107.55	112.60
1	H	108	THR	CA-C-N	-5.05	116.03	123.10
1	H	108	THR	C-N-CA	-5.05	116.03	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	266	GLN	CB-CA-C	5.05	118.08	109.80
1	A	425	ARG	N-CA-C	5.05	121.55	110.80
1	D	464	HIS	CA-C-N	-5.05	117.98	122.47
1	D	464	HIS	C-N-CA	-5.05	117.98	122.47
1	D	626	PHE	CA-CB-CG	-5.05	108.75	113.80
1	F	209	PHE	N-CA-C	5.05	119.29	113.18
1	H	215	LEU	N-CA-C	5.05	117.63	109.40
1	M	298	PRO	CB-CA-C	-5.05	104.61	111.12
1	M	795	VAL	N-CA-CB	5.05	118.99	112.28
1	P	879	PRO	CB-CA-C	-5.05	104.34	110.95
1	H	506	VAL	O-C-N	-5.05	116.26	122.57
1	G	221	GLN	N-CA-CB	-5.04	103.41	111.43
1	I	142	ILE	N-CA-C	5.04	115.12	107.75
1	F	249	GLU	N-CA-C	5.04	116.83	108.20
1	I	974	HIS	CA-CB-CG	-5.04	108.76	113.80
1	P	550	ALA	N-CA-CB	5.04	119.01	110.49
1	H	646	HIS	N-CA-CB	-5.04	102.76	110.42
1	J	155	ASN	CA-CB-CG	-5.04	107.56	112.60
1	K	690	SER	CA-C-N	-5.04	111.80	120.97
1	K	690	SER	C-N-CA	-5.04	111.80	120.97
1	L	625	GLN	N-CA-C	5.04	118.43	109.96
1	I	626	PHE	CA-CB-CG	-5.04	108.76	113.80
1	O	477	SER	N-CA-CB	5.04	117.59	110.13
1	E	261	TRP	N-CA-C	5.04	117.11	108.90
1	F	645	ARG	N-CA-C	5.04	117.98	110.52
1	L	206	SER	N-CA-C	5.04	116.08	108.07
1	L	802	ASP	O-C-N	5.04	125.94	120.85
1	P	699	ARG	N-CA-CB	5.04	120.32	111.55
1	A	568	TRP	CA-C-N	5.04	130.77	121.70
1	A	568	TRP	C-N-CA	5.04	130.77	121.70
1	K	218	PRO	N-CA-CB	5.04	107.73	103.35
1	N	252	ASP	CA-C-N	-5.04	114.23	122.54
1	N	252	ASP	C-N-CA	-5.04	114.23	122.54
1	B	345	ASN	CA-CB-CG	-5.03	107.57	112.60
1	I	859	ASP	N-CA-C	5.03	117.20	109.95
1	N	352	ARG	CB-CA-C	-5.03	104.62	112.07
1	P	352	ARG	CA-C-N	-5.03	116.15	121.48
1	P	352	ARG	C-N-CA	-5.03	116.15	121.48
1	A	738	PRO	N-CA-CB	5.03	107.68	103.25
1	B	241	GLU	N-CA-C	5.03	117.11	107.75
1	B	854	LYS	N-CA-C	5.03	117.32	109.52
1	D	29	ALA	N-CA-C	5.03	117.19	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	58	TRP	CA-CB-CG	5.03	123.16	113.60
1	G	420	MET	CA-C-N	-5.03	118.47	122.85
1	G	420	MET	C-N-CA	-5.03	118.47	122.85
1	L	462	SER	N-CA-C	-5.03	105.24	113.19
1	O	55	ASN	N-CA-C	-5.03	102.94	110.23
1	H	143	PHE	CB-CA-C	-5.03	102.86	111.41
1	L	787	ALA	O-C-N	5.03	127.10	121.32
1	P	225	PHE	N-CA-CB	5.03	118.99	110.49
1	A	885	ASN	N-CA-C	5.03	117.34	108.75
1	B	221	GLN	N-CA-CB	-5.03	103.62	111.56
1	B	385	ASN	N-CA-CB	-5.03	103.37	110.81
1	C	85	VAL	O-C-N	5.03	128.26	122.93
1	I	354	VAL	N-CA-C	5.03	115.95	108.46
1	I	779	PRO	CB-CA-C	-5.03	104.63	111.12
1	K	478	VAL	N-CA-C	5.03	115.26	110.53
1	P	177	LEU	CB-CA-C	5.03	118.06	109.72
1	P	931	PHE	CA-C-N	5.03	124.94	119.76
1	P	931	PHE	C-N-CA	5.03	124.94	119.76
1	J	921	PRO	CB-CA-C	-5.03	104.37	110.95
1	M	527	PRO	N-CA-CB	5.03	107.71	103.19
1	N	235	PHE	CA-CB-CG	-5.03	108.78	113.80
1	H	962	TYR	CA-C-N	-5.02	114.24	121.42
1	H	962	TYR	C-N-CA	-5.02	114.24	121.42
1	L	904	GLU	CA-C-O	-5.02	115.62	121.15
1	B	796	SER	N-CA-CB	5.02	117.37	109.69
1	G	438	GLU	N-CA-C	5.02	117.48	111.71
1	K	649	ASN	N-CA-C	-5.02	104.48	110.41
1	L	927	THR	N-CA-CB	5.02	116.55	110.17
1	F	731	PRO	CB-CA-C	-5.02	104.80	111.23
1	I	828	ASP	CA-CB-CG	5.02	117.62	112.60
1	L	679	LEU	CA-C-N	-5.02	116.40	123.13
1	L	679	LEU	C-N-CA	-5.02	116.40	123.13
1	M	85	VAL	N-CA-CB	5.02	118.08	111.25
1	O	657	ALA	N-CA-C	5.02	116.69	108.76
1	D	803	PRO	CA-C-N	-5.02	113.30	122.38
1	D	803	PRO	C-N-CA	-5.02	113.30	122.38
1	N	353	GLY	N-CA-C	5.02	121.23	112.10
1	P	769	TRP	CA-C-N	5.02	131.00	121.97
1	P	769	TRP	C-N-CA	5.02	131.00	121.97
1	C	193	ASP	N-CA-C	-5.02	106.26	112.38
1	C	685	LEU	CA-C-N	5.02	126.11	119.84
1	C	685	LEU	C-N-CA	5.02	126.11	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	450	HIS	CA-CB-CG	5.02	118.82	113.80
1	M	989	PHE	CA-CB-CG	-5.02	108.78	113.80
1	D	123	TYR	N-CA-C	-5.01	104.24	110.41
1	P	651	LEU	N-CA-C	5.01	116.69	108.52
1	A	612	THR	N-CA-CB	5.01	118.42	110.10
1	D	657	ALA	N-CA-C	5.01	116.69	109.07
1	D	910	LEU	O-C-N	5.01	127.01	121.85
1	P	1000	SER	O-C-N	5.01	125.74	121.83
1	C	649	ASN	CA-CB-CG	-5.01	107.59	112.60
1	F	181	GLU	N-CA-C	5.01	116.92	109.25
1	M	612	THR	CA-C-N	5.01	125.24	119.83
1	M	612	THR	C-N-CA	5.01	125.24	119.83
1	E	63	PHE	CA-C-N	5.01	126.10	119.84
1	E	63	PHE	C-N-CA	5.01	126.10	119.84
1	I	513	PRO	N-CA-CB	5.01	108.13	102.67
1	I	548	GLY	N-CA-C	-5.01	107.79	115.00
1	L	670	LEU	N-CA-C	5.01	118.11	110.20
1	N	287	ASP	N-CA-CB	-5.00	104.59	110.35
1	D	562	LEU	CA-C-N	-5.00	115.20	122.86
1	D	562	LEU	C-N-CA	-5.00	115.20	122.86
1	E	957	PHE	N-CA-C	5.00	115.92	108.86
1	I	147	ASN	CA-C-O	-5.00	114.82	120.32
1	J	614	HIS	N-CA-C	-5.00	102.88	110.39
1	L	714	ILE	N-CA-CB	5.00	117.06	111.21
1	O	208	ILE	N-CA-C	5.00	111.56	106.21
1	A	586	SER	N-CA-C	5.00	116.90	109.25
1	D	947	GLY	CA-C-N	5.00	124.61	119.56
1	D	947	GLY	C-N-CA	5.00	124.61	119.56
1	G	27	LEU	N-CA-CB	5.00	117.05	110.25
1	I	347	LYS	CA-C-N	5.00	125.39	119.99
1	I	347	LYS	C-N-CA	5.00	125.39	119.99
1	M	948	PRO	O-C-N	5.00	129.02	122.27
1	N	671	ASP	CB-CA-C	-5.00	104.94	112.09

All (17) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	90	TRP	CA
1	B	718	GLN	CA
1	D	95	TYR	CA
1	D	914	CYS	CA
1	E	118	ASN	CA

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Mol	Chain	Res	Type	Atom
1	F	533	LEU	CA
1	F	914	CYS	CA
1	G	40	GLU	CA
1	G	768	MET	CA
1	H	215	LEU	CA
1	I	684	GLU	CA
1	J	655	MET	CA
1	L	914	CYS	CA
1	M	100	TYR	CA
1	M	447	ASP	CA
1	P	40	GLU	CA
1	P	737	ILE	CA

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	D	473	ARG	Sidechain

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	8198	0	7796	579	0
1	B	8198	0	7796	586	0
1	C	8198	0	7796	466	0
1	D	8198	0	7796	581	0
1	E	8198	0	7795	937	0
1	F	8198	0	7796	624	0
1	G	8198	0	7796	686	0
1	H	8198	0	7796	930	0
1	I	8198	0	7796	656	0
1	J	8198	0	7795	540	0
1	K	8198	0	7796	818	0
1	L	8198	0	7796	841	0
1	M	8198	0	7796	1121	0
1	N	8198	0	7795	676	0
1	O	8198	0	7796	700	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	P	8198	0	7796	1203	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0
2	I	2	0	0	0	0
2	J	2	0	0	0	0
2	K	2	0	0	0	0
2	L	2	0	0	0	0
2	M	1	0	0	0	0
2	N	2	0	0	0	0
2	O	2	0	0	0	0
2	P	2	0	0	0	0
3	A	88	0	0	7	0
3	B	96	0	0	15	0
3	C	91	0	0	9	0
3	D	97	0	0	14	0
3	E	94	0	0	20	0
3	F	91	0	0	9	0
3	G	95	0	0	13	0
3	H	92	0	0	19	0
3	I	90	0	0	16	0
3	J	97	0	0	9	0
3	K	87	0	0	9	0
3	L	84	0	0	12	0
3	M	79	0	0	18	0
3	N	94	0	0	19	0
3	O	95	0	0	12	0
3	P	85	0	0	21	0
All	All	132654	0	124733	11736	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 46.

All (11736) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:427:THR:HA	1:A:436:MET:HE1	1.25	1.19
1:E:7:LEU:HD13	1:E:74:LEU:HD11	1.23	1.17
1:D:572:ASP:HB3	1:D:603:MET:HG2	1.25	1.16
1:A:770:ILE:HD11	1:A:1022:GLN:HG2	1.18	1.15
1:M:205:MET:HE3	1:M:365:GLN:HG3	1.28	1.14
1:I:316:HIS:HA	1:I:323:ILE:HD13	1.24	1.13
1:D:427:THR:HA	1:D:436:MET:HE1	1.27	1.13
1:J:427:THR:HA	1:J:436:MET:HE1	1.22	1.12
1:J:129:VAL:HG21	1:J:177:LEU:HD13	1.23	1.12
1:M:70:PRO:HG2	1:M:78:LEU:HD11	1.31	1.12
1:F:427:THR:HA	1:F:436:MET:HE1	1.20	1.11
1:F:777:LEU:HD12	1:F:889:ALA:HA	1.32	1.11
1:F:7:LEU:HD13	1:F:74:LEU:HD11	1.28	1.11
1:M:141:ILE:HD12	1:M:214:LEU:HD21	1.32	1.10
1:P:777:LEU:HD11	1:P:889:ALA:HA	1.34	1.10
1:I:746:ASP:HA	1:I:760:ARG:HG3	1.31	1.10
1:L:493:THR:HG22	1:L:495:ALA:H	0.97	1.10
1:M:54:LEU:HB2	1:M:212:VAL:HG12	1.33	1.09
1:I:427:THR:HA	1:I:436:MET:HE1	1.22	1.09
1:K:427:THR:HA	1:K:436:MET:HE1	1.16	1.09
1:K:559:TYR:HB2	1:K:562:LEU:HD12	1.33	1.09
1:C:427:THR:HA	1:C:436:MET:HE1	1.15	1.08
1:H:746:ASP:HA	1:H:760:ARG:HG3	1.28	1.08
1:M:7:LEU:HD12	1:M:74:LEU:HD11	1.30	1.08
1:P:656:VAL:HB	1:P:664:ALA:HB3	1.14	1.08
1:E:197:LEU:HD12	1:E:439:ARG:HE	1.16	1.08
1:M:581:ASN:HB2	1:M:583:ASN:HD21	1.13	1.08
1:E:23:GLN:HB3	1:E:26:ARG:HH21	1.09	1.07
1:E:427:THR:HA	1:E:436:MET:HE1	1.10	1.07
1:A:352:ARG:HB2	1:A:385:ASN:HB2	1.32	1.06
1:B:166:ARG:HG2	1:B:392:TYR:HB2	1.36	1.06
1:K:38:ASN:HD22	1:K:41:GLU:HG3	1.14	1.06
1:P:316:HIS:HA	1:P:323:ILE:HD13	1.33	1.06
1:P:352:ARG:HB2	1:P:385:ASN:HB2	1.35	1.06
1:I:134:LEU:HD12	1:I:179:ALA:HB2	1.32	1.05
1:A:166:ARG:HG2	1:A:392:TYR:HB2	1.32	1.05
1:L:546:LEU:HD22	1:L:616:ALA:HB1	1.33	1.05
1:L:777:LEU:HD12	1:L:889:ALA:HA	1.31	1.05
1:M:487:GLU:HG2	1:M:491:ALA:HB2	1.38	1.05
1:H:427:THR:HA	1:H:436:MET:HE1	1.08	1.04
1:L:427:THR:HA	1:L:436:MET:HE1	1.08	1.04
1:M:777:LEU:HD11	1:M:889:ALA:HA	1.31	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:166:ARG:HG2	1:E:392:TYR:HB2	1.39	1.04
1:M:38:ASN:HD22	1:M:41:GLU:HG3	1.19	1.04
1:M:187:MET:HE2	1:M:189:LEU:HD21	1.38	1.04
1:G:770:ILE:HD11	1:G:1022:GLN:HG2	1.39	1.04
1:M:10:VAL:HG21	1:M:153:TRP:HZ2	1.20	1.04
1:B:746:ASP:HA	1:B:760:ARG:HG3	1.41	1.03
1:J:349:LEU:HD13	1:J:351:ILE:HD11	1.39	1.02
1:E:43:ARG:HH21	1:E:264:GLU:HG2	1.20	1.02
1:H:719:GLN:HE22	1:H:914:CYS:HB3	1.21	1.02
1:J:316:HIS:HA	1:J:323:ILE:HD12	1.42	1.01
1:N:369:GLU:HG2	1:N:397:LEU:HD21	1.39	1.01
1:P:909:ARG:HD3	1:P:993:ILE:HD11	1.41	1.01
1:O:778:THR:HG22	1:O:779:PRO:HD2	1.42	1.01
1:D:746:ASP:HA	1:D:760:ARG:HG3	1.43	1.00
1:G:166:ARG:HB2	1:G:414:ASN:HD22	1.19	1.00
1:K:316:HIS:HA	1:K:323:ILE:HD12	1.42	1.00
1:P:423:MET:HE1	1:P:461:GLU:HB3	1.42	1.00
1:P:656:VAL:HG11	1:P:686:PRO:HG2	1.43	1.00
1:P:696:LEU:HB2	1:P:722:LEU:HD11	1.42	1.00
1:J:436:MET:HE3	1:J:467:ASN:HD22	1.22	1.00
1:M:197:LEU:HD12	1:M:439:ARG:HE	1.25	1.00
1:O:152:LEU:HD12	1:O:153:TRP:H	1.22	0.99
1:I:51:LEU:HD12	1:I:52:ARG:H	1.28	0.99
1:M:502:MET:HB2	1:M:537:GLU:HB2	1.43	0.99
1:K:843:GLN:HG2	1:K:848:THR:HG23	1.43	0.99
1:M:227:VAL:HG13	1:M:240:LEU:HD11	1.44	0.99
1:P:225:PHE:HB3	1:P:244:VAL:HG13	1.45	0.99
1:M:23:GLN:HB3	1:M:26:ARG:HH21	1.23	0.99
1:A:166:ARG:HB2	1:A:414:ASN:HD22	1.25	0.98
1:O:730:LEU:HD12	1:O:731:PRO:HD2	1.41	0.98
1:J:635:THR:HG23	1:J:681:GLU:HG3	1.43	0.98
1:K:581:ASN:H	1:K:581:ASN:HD22	1.10	0.98
1:A:356:ARG:HG2	1:A:356:ARG:HH11	1.28	0.98
1:L:278:ILE:H	1:L:278:ILE:HD12	1.29	0.97
1:H:50:GLN:HG3	1:H:216:HIS:HB3	1.46	0.97
1:E:227:VAL:HG13	1:E:240:LEU:HD11	1.45	0.97
1:O:930:VAL:HA	1:O:973:ARG:HD3	1.44	0.97
1:G:402:CYS:HB3	1:G:407:LEU:HB2	1.45	0.97
1:A:114:VAL:HG13	1:A:115:PRO:HD2	1.42	0.97
1:L:750:GLU:HG3	1:L:755:ARG:HG2	1.46	0.97
1:E:745:MET:HG2	1:E:761:GLN:HE22	1.24	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:746:ASP:HA	1:K:760:ARG:HG3	1.46	0.97
1:P:259:SER:HA	1:P:269:SER:HB2	1.44	0.97
1:I:369:GLU:HG3	1:I:397:LEU:HD21	1.47	0.97
1:A:894:ARG:HH22	1:A:921:PRO:HD3	1.31	0.96
1:M:427:THR:HA	1:M:436:MET:HE1	1.44	0.96
1:H:316:HIS:HA	1:H:323:ILE:HD13	1.48	0.96
1:C:362:LEU:HD21	1:C:576:ILE:HD12	1.46	0.96
1:F:822:LEU:HD12	1:F:823:LEU:H	1.28	0.96
1:P:899:GLY:HA3	1:P:941:THR:HG23	1.46	0.96
1:C:949:HIS:HD2	1:C:1020:TRP:HE1	1.14	0.96
1:O:10:VAL:HG12	1:O:11:LEU:HD23	1.45	0.96
1:D:14:ARG:HG2	1:D:14:ARG:HH11	1.29	0.95
1:H:668:VAL:HG12	1:H:669:PRO:HD2	1.45	0.95
1:N:232:ASN:HD21	1:N:236:SER:HB2	1.30	0.95
1:P:742:THR:HG22	1:P:743:SER:H	1.31	0.95
1:E:637:GLU:HG3	1:E:679:LEU:HD21	1.48	0.95
1:B:427:THR:HA	1:B:436:MET:HE1	1.46	0.95
1:F:38:ASN:HD22	1:F:41:GLU:HG3	1.32	0.95
1:I:360:HIS:HE1	1:I:362:LEU:HB2	1.30	0.95
1:L:90:TRP:HE3	1:L:123:TYR:HH	1.09	0.94
1:I:227:VAL:HG13	1:I:240:LEU:HD11	1.48	0.94
1:C:746:ASP:HA	1:C:760:ARG:HG3	1.49	0.94
1:F:377:LEU:HD22	1:F:708:TRP:HA	1.49	0.94
1:H:634:GLN:NE2	1:H:634:GLN:H	1.64	0.94
1:E:99:ILE:HD11	1:E:190:ARG:HH12	1.31	0.94
1:G:360:HIS:CE1	1:G:362:LEU:HB2	2.03	0.94
1:O:166:ARG:HG2	1:O:392:TYR:HB2	1.48	0.94
1:P:668:VAL:HG13	1:P:669:PRO:HD2	1.50	0.94
1:H:873:ALA:HB3	1:H:876:THR:HG22	1.48	0.94
1:L:86:VAL:HG13	1:L:87:PRO:HA	1.47	0.94
1:I:789:LEU:HD13	1:I:993:ILE:HG22	1.50	0.94
1:K:66:PRO:HG2	1:K:67:GLU:HG2	1.47	0.94
1:J:355:ASN:H	1:J:355:ASN:HD22	1.14	0.93
1:L:166:ARG:HB2	1:L:414:ASN:ND2	1.83	0.93
1:P:166:ARG:HE	1:P:210:ARG:HH21	1.17	0.93
1:H:114:VAL:HG13	1:H:115:PRO:HD2	1.47	0.93
1:P:394:ASN:O	1:P:395:HIS:C	2.11	0.93
1:G:37:ARG:NH2	1:G:218:PRO:HD3	1.83	0.93
1:L:141:ILE:HD13	1:L:143:PHE:CE1	2.04	0.93
1:M:10:VAL:HG21	1:M:153:TRP:CZ2	2.03	0.93
1:M:152:LEU:HD12	1:M:153:TRP:H	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:767:GLN:NE2	1:M:768:MET:H	1.66	0.93
1:J:377:LEU:HD22	1:J:708:TRP:HA	1.49	0.93
1:M:128:ASN:ND2	1:M:180:GLY:HA2	1.83	0.93
1:O:262:GLN:HE22	1:O:299:LYS:HD2	1.35	0.92
1:M:571:VAL:HG11	1:M:611:ARG:NH1	1.84	0.92
1:F:856:TYR:HB3	1:F:864:MET:HE2	1.50	0.92
1:H:205:MET:HE3	1:H:365:GLN:HG3	1.51	0.92
1:I:86:VAL:HG13	1:I:87:PRO:HA	1.51	0.92
1:L:493:THR:HG22	1:L:495:ALA:N	1.83	0.92
1:M:360:HIS:CE1	1:M:362:LEU:HB2	2.05	0.92
1:J:822:LEU:HD12	1:J:823:LEU:H	1.32	0.92
1:P:822:LEU:HD12	1:P:823:LEU:H	1.33	0.92
1:H:949:HIS:HD2	1:H:1020:TRP:HE1	1.11	0.92
1:P:141:ILE:HD12	1:P:143:PHE:CE1	2.04	0.92
1:P:559:TYR:HB2	1:P:562:LEU:HD12	1.48	0.92
1:H:572:ASP:HB3	1:H:603:MET:HB3	1.52	0.92
1:E:100:TYR:CE1	1:E:602:CYS:HB3	2.05	0.92
1:H:894:ARG:NH2	1:H:921:PRO:HD3	1.85	0.92
1:L:377:LEU:HD22	1:L:708:TRP:HA	1.48	0.92
1:M:651:LEU:HD12	1:M:652:LEU:H	1.35	0.92
1:E:152:LEU:HD12	1:E:153:TRP:H	1.35	0.91
1:K:7:LEU:HD13	1:K:74:LEU:HD11	1.51	0.91
1:P:312:VAL:HG13	1:P:327:ALA:HB2	1.51	0.91
1:F:653:HIS:CD2	1:F:667:GLU:HG2	2.04	0.91
1:N:360:HIS:CE1	1:N:362:LEU:HB2	2.06	0.91
1:H:79:PRO:HD2	1:H:80:GLU:HG3	1.49	0.91
1:O:460:ASN:ND2	1:O:461:GLU:HG3	1.86	0.91
1:C:460:ASN:ND2	1:C:461:GLU:HG3	1.84	0.91
1:D:312:VAL:HG13	1:D:327:ALA:HB2	1.48	0.91
1:P:258:VAL:HG12	1:P:293:LEU:HD11	1.53	0.91
1:G:892:ALA:HB3	1:G:946:TYR:CE1	2.05	0.91
1:H:43:ARG:NH2	1:H:264:GLU:HG2	1.85	0.91
1:M:422:PRO:HG3	1:P:284:GLY:HA2	1.53	0.91
1:I:18:ASN:ND2	1:I:21:VAL:HG23	1.86	0.91
1:L:102:ASN:HD22	1:L:201:ASP:HB2	1.35	0.91
1:M:765:LEU:HD22	1:M:864:MET:HE1	1.52	0.91
1:P:696:LEU:HD12	1:P:697:THR:N	1.84	0.91
1:L:959:ILE:HG13	1:L:984:LEU:HD12	1.50	0.90
1:H:630:ARG:HB2	1:H:637:GLU:HG2	1.52	0.90
1:L:745:MET:HE2	1:L:761:GLN:NE2	1.86	0.90
1:P:118:ASN:ND2	1:P:191:TRP:HB2	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:360:HIS:CE1	1:I:362:LEU:HB2	2.05	0.90
1:D:653:HIS:CD2	1:D:667:GLU:HG2	2.07	0.90
1:M:559:TYR:HB2	1:M:562:LEU:HD12	1.50	0.90
1:C:856:TYR:HD2	1:C:864:MET:HE2	1.36	0.90
1:B:261:TRP:CZ3	1:B:266:GLN:HB2	2.07	0.90
1:H:719:GLN:NE2	1:H:914:CYS:HB3	1.86	0.90
1:J:427:THR:HA	1:J:436:MET:CE	1.99	0.90
1:L:246:MET:HE2	1:L:287:ASP:HB3	1.53	0.90
1:B:651:LEU:HD13	1:B:669:PRO:HA	1.54	0.90
1:H:742:THR:HG22	1:H:743:SER:H	1.32	0.90
1:O:685:LEU:HB3	1:O:686:PRO:HD2	1.54	0.90
1:D:822:LEU:HD12	1:D:823:LEU:N	1.87	0.89
1:K:152:LEU:HD12	1:K:153:TRP:H	1.37	0.89
1:P:251:ARG:HB3	1:P:253:TYR:CE1	2.06	0.89
1:D:767:GLN:NE2	1:D:774:LYS:HB3	1.87	0.89
1:H:65:ALA:HB1	1:H:66:PRO:HD2	1.53	0.89
1:H:989:PHE:CE2	1:H:1014:TYR:HB3	2.08	0.89
1:J:708:TRP:CE3	1:J:709:SER:HB3	2.06	0.89
1:D:599:ARG:HB2	1:D:600:GLN:HG3	1.54	0.89
1:J:691:ALA:HA	1:J:725:ASN:HB2	1.51	0.89
1:N:436:MET:HA	1:N:439:ARG:HG3	1.52	0.89
1:H:696:LEU:HD12	1:H:697:THR:N	1.87	0.89
1:B:427:THR:HA	1:B:436:MET:CE	2.03	0.89
1:B:778:THR:HG22	1:B:779:PRO:HD2	1.54	0.89
1:C:750:GLU:HG2	1:C:755:ARG:HG2	1.53	0.89
1:D:354:VAL:HG11	1:D:379:MET:HE2	1.55	0.89
1:E:960:SER:HA	3:E:1281:HOH:O	1.73	0.89
1:K:581:ASN:H	1:K:581:ASN:ND2	1.67	0.89
1:E:43:ARG:NH2	1:E:264:GLU:HG2	1.88	0.89
1:F:360:HIS:HE1	1:F:362:LEU:HB2	1.38	0.89
1:H:70:PRO:HG2	1:H:78:LEU:HD11	1.55	0.89
1:H:246:MET:HG2	1:H:274:PHE:CE2	2.08	0.89
1:C:653:HIS:CD2	1:C:667:GLU:HG2	2.08	0.89
1:E:354:VAL:HG11	1:E:379:MET:HE2	1.55	0.89
1:K:37:ARG:NH2	1:K:218:PRO:HD3	1.87	0.89
1:L:166:ARG:HB2	1:L:414:ASN:HD22	1.34	0.89
1:O:568:TRP:HE1	1:O:604:ASN:HD22	1.18	0.89
1:D:857:ARG:HG2	1:D:857:ARG:HH11	1.37	0.89
1:H:427:THR:HA	1:H:436:MET:CE	2.01	0.89
1:K:740:LEU:HD12	1:K:741:THR:H	1.38	0.89
1:I:607:VAL:HG12	1:I:613:PRO:HA	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:603:MET:HE1	1:M:930:VAL:HG11	1.55	0.89
1:L:651:LEU:HD12	1:L:669:PRO:HA	1.53	0.89
1:M:34:ALA:HB3	1:M:36:TRP:CZ3	2.08	0.89
1:F:822:LEU:HD12	1:F:823:LEU:N	1.87	0.88
1:M:23:GLN:HB3	1:M:26:ARG:NH2	1.87	0.88
1:A:572:ASP:HB3	1:A:603:MET:HG2	1.54	0.88
1:O:533:LEU:HD12	1:O:534:ILE:N	1.88	0.88
1:P:635:THR:HG23	1:P:681:GLU:HG2	1.54	0.88
1:E:128:ASN:ND2	1:E:180:GLY:HA2	1.88	0.88
1:L:420:MET:HE3	1:L:426:LEU:HD11	1.52	0.88
1:L:433:LEU:HB3	1:L:434:PRO:HD3	1.53	0.88
1:L:948:PRO:HG2	1:L:949:HIS:CE1	2.08	0.88
1:P:474:TRP:CZ2	1:P:478:VAL:HG21	2.08	0.88
1:I:51:LEU:HD12	1:I:52:ARG:N	1.86	0.88
1:L:427:THR:HA	1:L:436:MET:CE	2.00	0.88
1:E:356:ARG:HG2	1:E:356:ARG:HH11	1.36	0.88
1:P:902:PRO:HD3	1:P:918:TRP:CH2	2.09	0.88
1:A:770:ILE:CD1	1:A:1022:GLN:HG2	2.04	0.88
1:F:949:HIS:HD2	1:F:1020:TRP:HE1	1.22	0.88
1:I:434:PRO:HB3	1:L:434:PRO:HB3	1.55	0.88
1:I:684:GLU:HG2	1:I:685:LEU:H	1.38	0.88
1:D:142:ILE:HG23	1:D:170:GLU:HG2	1.55	0.88
1:E:114:VAL:HG13	1:E:115:PRO:HD2	1.55	0.88
1:L:360:HIS:ND1	1:L:361:PRO:HD2	1.89	0.88
1:C:237:ARG:HH11	1:C:237:ARG:HG3	1.39	0.87
1:P:261:TRP:CH2	1:P:266:GLN:HB2	2.08	0.87
1:E:894:ARG:NH2	1:E:921:PRO:HD3	1.89	0.87
1:K:261:TRP:HA	1:K:267:VAL:HG23	1.53	0.87
1:I:427:THR:CA	1:I:436:MET:HE1	2.03	0.87
1:G:599:ARG:HB2	1:G:600:GLN:HG3	1.54	0.87
1:M:603:MET:HE1	1:M:930:VAL:CG1	2.03	0.87
1:M:708:TRP:CE3	1:M:709:SER:HB3	2.08	0.87
1:P:383:ASN:HD22	1:P:625:GLN:HA	1.39	0.87
1:H:777:LEU:HD12	1:H:889:ALA:HA	1.55	0.87
1:M:651:LEU:HD12	1:M:652:LEU:N	1.89	0.87
1:M:822:LEU:HD12	1:M:824:GLN:H	1.40	0.87
1:M:894:ARG:NH2	1:M:921:PRO:HD3	1.88	0.87
1:C:166:ARG:HG2	1:C:392:TYR:HB2	1.54	0.87
1:E:16:TRP:CD1	1:E:17:GLU:HG3	2.09	0.87
1:G:79:PRO:HG2	1:G:80:GLU:HG3	1.56	0.87
1:L:892:ALA:HB3	1:L:946:TYR:CE1	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:166:ARG:HB2	1:M:414:ASN:HD22	1.40	0.87
1:P:685:LEU:HB3	1:P:686:PRO:HD2	1.56	0.87
1:J:635:THR:CG2	1:J:681:GLU:HG3	2.04	0.87
1:L:778:THR:HG23	1:L:779:PRO:HD2	1.56	0.87
1:M:114:VAL:HG13	1:M:115:PRO:HD2	1.56	0.87
1:M:173:LEU:HB3	1:M:177:LEU:HD21	1.57	0.87
1:P:152:LEU:HD12	1:P:153:TRP:N	1.88	0.87
1:L:36:TRP:CE2	1:L:42:ALA:HA	2.09	0.87
1:M:240:LEU:HD12	1:M:241:GLU:N	1.89	0.87
1:O:850:PHE:HD2	1:O:872:VAL:HG13	1.39	0.87
1:P:701:VAL:HG22	1:P:714:ILE:CD1	2.04	0.87
1:D:894:ARG:NH2	1:D:921:PRO:HD3	1.89	0.86
1:E:227:VAL:HG13	1:E:240:LEU:CD1	2.05	0.86
1:P:822:LEU:HD12	1:P:823:LEU:N	1.89	0.86
1:H:205:MET:HE1	1:H:364:GLY:CA	2.05	0.86
1:L:360:HIS:CE1	1:L:362:LEU:HB2	2.09	0.86
1:H:946:TYR:CE2	1:H:982:THR:HG21	2.11	0.86
1:K:601:PHE:CE2	1:K:795:VAL:HG12	2.11	0.86
1:G:789:LEU:HD11	1:G:993:ILE:HG22	1.57	0.86
1:H:23:GLN:HB3	1:H:26:ARG:NH2	1.90	0.86
1:K:292:ARG:HH11	1:K:292:ARG:HG3	1.39	0.86
1:M:930:VAL:HA	1:M:973:ARG:HD3	1.58	0.86
1:O:377:LEU:HD22	1:O:708:TRP:HA	1.58	0.86
1:I:66:PRO:HB3	1:I:187:MET:HE3	1.55	0.86
1:P:204:ARG:HH11	1:P:204:ARG:HG3	1.39	0.86
1:E:27:LEU:HD12	1:E:140:ARG:NH1	1.90	0.86
1:J:691:ALA:HA	1:J:725:ASN:CB	2.05	0.86
1:D:625:GLN:NE2	1:D:716:ALA:HB1	1.89	0.86
1:H:873:ALA:HB3	1:H:876:THR:CG2	2.06	0.86
1:I:73:TRP:HH2	1:I:187:MET:HB2	1.40	0.86
1:O:383:ASN:ND2	1:O:625:GLN:HA	1.90	0.86
1:P:377:LEU:HD23	1:P:708:TRP:HA	1.58	0.86
1:D:822:LEU:HD12	1:D:823:LEU:H	1.39	0.86
1:J:460:ASN:ND2	1:J:461:GLU:HG3	1.88	0.86
1:J:770:ILE:HD12	1:J:775:GLN:NE2	1.90	0.86
1:M:422:PRO:HG3	1:P:284:GLY:CA	2.06	0.86
1:N:740:LEU:HD12	1:N:741:THR:N	1.90	0.86
1:N:822:LEU:HD12	1:N:823:LEU:N	1.91	0.86
1:L:100:TYR:CE2	1:L:602:CYS:HB3	2.10	0.86
1:M:685:LEU:HB3	1:M:686:PRO:HD2	1.58	0.86
1:P:970:THR:HG21	1:P:976:LEU:HD23	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:857:ARG:HG2	1:F:857:ARG:HH11	1.40	0.86
1:I:114:VAL:HG13	1:I:115:PRO:HD2	1.57	0.86
1:A:949:HIS:HD2	1:A:1020:TRP:HE1	1.17	0.85
1:B:38:ASN:HD22	1:B:41:GLU:HG3	1.40	0.85
1:M:54:LEU:HB2	1:M:212:VAL:CG1	2.05	0.85
1:P:100:TYR:CE2	1:P:598:ASP:HB2	2.11	0.85
1:A:38:ASN:HD22	1:A:41:GLU:H	1.24	0.85
1:K:360:HIS:CE1	1:K:362:LEU:HB2	2.11	0.85
1:P:894:ARG:NH1	1:P:920:LEU:HA	1.90	0.85
1:G:240:LEU:HD23	1:G:293:LEU:HD12	1.58	0.85
1:K:78:LEU:HB3	1:K:79:PRO:HD2	1.58	0.85
1:E:637:GLU:HG3	1:E:679:LEU:CD2	2.07	0.85
1:I:251:ARG:HB3	1:I:253:TYR:HE1	1.41	0.85
1:K:202:MET:HE3	1:K:357:HIS:HD2	1.40	0.85
1:O:92:MET:HE2	1:O:364:GLY:N	1.91	0.85
1:C:227:VAL:HG13	1:C:240:LEU:HD11	1.59	0.85
1:C:856:TYR:CD2	1:C:864:MET:HE2	2.12	0.85
1:K:420:MET:HA	1:K:420:MET:HE3	1.58	0.85
1:L:152:LEU:HD12	1:L:153:TRP:N	1.92	0.85
1:F:685:LEU:HB3	1:F:686:PRO:HD2	1.58	0.85
1:H:878:HIS:CD2	1:H:1010:SER:HB3	2.12	0.85
1:J:653:HIS:CD2	1:J:667:GLU:HG2	2.12	0.85
1:M:427:THR:HA	1:M:436:MET:CE	2.05	0.85
1:G:833:ALA:HB2	1:G:859:ASP:HA	1.57	0.85
1:M:1011:ALA:HB3	1:M:1014:TYR:CZ	2.11	0.85
1:P:377:LEU:CD2	1:P:708:TRP:HA	2.06	0.85
1:G:241:GLU:HG3	1:G:292:ARG:HG2	1.59	0.85
1:H:125:LEU:HD12	1:H:126:THR:H	1.42	0.85
1:M:696:LEU:HD12	1:M:697:THR:N	1.91	0.85
1:K:768:MET:HG2	1:K:775:GLN:CG	2.07	0.85
1:E:23:GLN:HB3	1:E:26:ARG:NH2	1.92	0.84
1:E:635:THR:HG23	1:E:681:GLU:HG3	1.59	0.84
1:K:843:GLN:CG	1:K:848:THR:HG23	2.05	0.84
1:L:777:LEU:CD1	1:L:889:ALA:HA	2.06	0.84
1:G:78:LEU:HB3	1:G:79:PRO:HD2	1.58	0.84
1:O:694:LEU:HB3	1:O:722:LEU:HB2	1.58	0.84
1:G:114:VAL:HG13	1:G:115:PRO:HD2	1.59	0.84
1:I:413:ALA:HB2	1:I:443:MET:HE1	1.58	0.84
1:C:246:MET:HE2	1:C:287:ASP:CB	2.07	0.84
1:H:570:TRP:CD1	1:H:571:VAL:HG22	2.12	0.84
1:K:23:GLN:HB3	1:K:26:ARG:HH21	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:127:PHE:HE1	1:M:184:LEU:HG	1.42	0.84
1:M:356:ARG:HG2	1:M:356:ARG:HH11	1.42	0.84
1:B:892:ALA:HB3	1:B:946:TYR:CE1	2.12	0.84
1:H:454:ILE:HD12	1:H:455:ILE:HG13	1.59	0.84
1:I:251:ARG:HB3	1:I:253:TYR:CE1	2.13	0.84
1:L:440:VAL:HG21	1:L:471:LEU:HD13	1.60	0.84
1:M:539:ALA:HB3	1:M:567:VAL:HG13	1.59	0.84
1:M:946:TYR:CE2	1:M:982:THR:HG21	2.12	0.84
1:P:166:ARG:HG2	1:P:392:TYR:HB2	1.57	0.84
1:K:533:LEU:HD12	1:K:534:ILE:N	1.93	0.84
1:K:658:LEU:HD12	1:K:659:ASP:N	1.93	0.84
1:J:202:MET:HE3	1:J:357:HIS:CD2	2.12	0.84
1:N:245:GLN:HG2	1:N:288:ARG:HG2	1.60	0.84
1:H:166:ARG:HG3	1:H:392:TYR:HB2	1.59	0.83
1:M:367:MET:HB3	1:M:372:MET:HE3	1.60	0.83
1:M:572:ASP:HB3	1:M:603:MET:HB3	1.57	0.83
1:N:360:HIS:HE1	1:N:362:LEU:HB2	1.41	0.83
1:P:36:TRP:CE2	1:P:42:ALA:HA	2.11	0.83
1:A:251:ARG:HB3	1:A:253:TYR:CE1	2.12	0.83
1:D:73:TRP:CZ2	1:D:122:CYS:HB3	2.13	0.83
1:E:69:VAL:HG13	1:E:70:PRO:HD2	1.58	0.83
1:L:894:ARG:HH21	1:L:921:PRO:HD3	1.42	0.83
1:P:767:GLN:NE2	1:P:774:LYS:HB3	1.93	0.83
1:D:685:LEU:HB3	1:D:686:PRO:HD2	1.60	0.83
1:E:147:ASN:HB2	1:E:209:PHE:HE2	1.42	0.83
1:G:59:ARG:CZ	1:G:81:ALA:HB3	2.08	0.83
1:H:57:GLU:HG2	1:H:83:THR:CG2	2.07	0.83
1:K:658:LEU:HD11	1:K:692:GLY:HA3	1.61	0.83
1:L:745:MET:HE2	1:L:761:GLN:HE22	1.43	0.83
1:M:205:MET:HE3	1:M:365:GLN:CG	2.08	0.83
1:M:623:GLN:HE21	1:M:623:GLN:HA	1.42	0.83
1:D:427:THR:CA	1:D:436:MET:HE1	2.09	0.83
1:F:777:LEU:CD1	1:F:889:ALA:HA	2.07	0.83
1:J:129:VAL:HG21	1:J:177:LEU:CD1	2.07	0.83
1:P:650:GLU:HB3	1:P:670:LEU:HB2	1.59	0.83
1:E:360:HIS:CG	1:E:361:PRO:HD2	2.11	0.83
1:H:86:VAL:HG13	1:H:87:PRO:HA	1.58	0.83
1:J:597:ASN:ND2	1:J:599:ARG:H	1.76	0.83
1:O:570:TRP:CD1	1:O:571:VAL:HG22	2.14	0.83
1:P:210:ARG:NH1	1:P:395:HIS:H	1.76	0.83
1:E:668:VAL:HG13	1:E:669:PRO:HD2	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:746:ASP:CA	1:H:760:ARG:HG3	2.09	0.83
1:H:833:ALA:HB1	1:H:858:ILE:O	1.79	0.83
1:P:780:LEU:HD12	1:P:886:CYS:HB3	1.59	0.83
1:E:890:GLN:HG3	1:E:891:VAL:H	1.43	0.83
1:K:232:ASN:HD21	1:K:237:ARG:H	1.27	0.83
1:P:129:VAL:HG23	1:P:182:ASN:HD22	1.43	0.83
1:P:166:ARG:HE	1:P:210:ARG:NH2	1.75	0.83
1:A:894:ARG:NH2	1:A:921:PRO:HD3	1.92	0.83
1:E:261:TRP:CH2	1:E:266:GLN:HB2	2.13	0.83
1:G:939:CYS:HA	1:G:956:GLN:HB3	1.59	0.83
1:H:251:ARG:HB3	1:H:253:TYR:CE1	2.13	0.83
1:I:856:TYR:HD2	1:I:864:MET:HE2	1.42	0.83
1:N:160:GLY:HA3	1:N:171:PHE:CE2	2.13	0.83
1:D:856:TYR:HD2	1:D:864:MET:HE2	1.42	0.83
1:N:355:ASN:HD22	1:N:355:ASN:H	1.25	0.83
1:F:927:THR:HG21	1:F:929:TYR:CZ	2.13	0.82
1:I:770:ILE:HD11	1:I:1022:GLN:HG2	1.61	0.82
1:L:856:TYR:HD2	1:L:864:MET:HE2	1.42	0.82
1:M:102:ASN:HD22	1:M:201:ASP:HB2	1.42	0.82
1:M:127:PHE:CE1	1:M:184:LEU:HG	2.13	0.82
1:M:146:VAL:HG11	1:M:150:PHE:CD1	2.14	0.82
1:H:718:GLN:HG3	1:H:719:GLN:H	1.43	0.82
1:M:79:PRO:HG2	1:M:80:GLU:HG3	1.61	0.82
1:M:187:MET:HE2	1:M:189:LEU:CD2	2.08	0.82
1:O:7:LEU:HD13	1:O:74:LEU:HD11	1.61	0.82
1:A:131:GLU:HB2	1:A:135:GLN:HE22	1.42	0.82
1:B:7:LEU:HD13	1:B:74:LEU:HD11	1.61	0.82
1:B:128:ASN:HD21	1:B:180:GLY:HA2	1.43	0.82
1:E:427:THR:CA	1:E:436:MET:HE1	2.03	0.82
1:G:166:ARG:HB2	1:G:414:ASN:ND2	1.94	0.82
1:L:583:ASN:HD22	1:L:583:ASN:N	1.77	0.82
1:P:100:TYR:HB2	1:P:203:TRP:CE3	2.14	0.82
1:P:937:LEU:HD23	1:P:938:ARG:N	1.94	0.82
1:D:251:ARG:HB3	1:D:253:TYR:CE1	2.15	0.82
1:E:36:TRP:CD2	1:E:42:ALA:HB2	2.15	0.82
1:E:427:THR:HA	1:E:436:MET:CE	2.04	0.82
1:G:86:VAL:HG13	1:G:87:PRO:HA	1.59	0.82
1:P:118:ASN:HD21	1:P:191:TRP:HB2	1.42	0.82
1:E:377:LEU:HD23	1:E:708:TRP:HA	1.62	0.82
1:F:7:LEU:CD1	1:F:74:LEU:HD11	2.08	0.82
1:K:262:GLN:HE22	1:K:299:LYS:HD2	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:258:VAL:HG12	1:L:293:LEU:HD11	1.61	0.82
1:P:23:GLN:HB3	1:P:26:ARG:NH2	1.95	0.82
1:F:780:LEU:HD12	1:F:886:CYS:HB3	1.61	0.82
1:I:678:GLN:C	1:I:679:LEU:HD23	2.04	0.82
1:I:949:HIS:HD2	1:I:1020:TRP:HE1	1.26	0.82
1:L:583:ASN:ND2	1:L:583:ASN:H	1.76	0.82
1:M:141:ILE:CD1	1:M:214:LEU:HD21	2.10	0.82
1:P:906:TYR:HB3	1:P:907:PRO:HD2	1.59	0.82
1:P:946:TYR:CE2	1:P:982:THR:HG21	2.15	0.82
1:H:436:MET:HE3	1:H:467:ASN:HD22	1.43	0.82
1:I:102:ASN:ND2	1:I:201:ASP:HB2	1.94	0.82
1:K:937:LEU:HG	1:K:938:ARG:H	1.42	0.82
1:M:251:ARG:HB3	1:M:253:TYR:CE1	2.14	0.82
1:P:166:ARG:NE	1:P:210:ARG:HH21	1.78	0.82
1:P:777:LEU:CD1	1:P:889:ALA:HA	2.09	0.82
1:G:822:LEU:HD12	1:G:823:LEU:N	1.95	0.82
1:H:833:ALA:CB	1:H:859:ASP:HA	2.10	0.82
1:L:246:MET:HE2	1:L:287:ASP:CB	2.09	0.82
1:M:30:HIS:HB2	1:M:31:PRO:HD2	1.61	0.82
1:B:166:ARG:HG2	1:B:392:TYR:CB	2.10	0.82
1:E:70:PRO:HG2	1:E:78:LEU:HD11	1.59	0.82
1:F:835:LEU:C	1:F:836:ILE:HD13	2.04	0.82
1:G:635:THR:HG23	1:G:681:GLU:HA	1.62	0.82
1:H:653:HIS:CD2	1:H:667:GLU:HG2	2.14	0.82
1:L:546:LEU:CD2	1:L:616:ALA:HB1	2.09	0.82
1:M:18:ASN:ND2	1:M:21:VAL:HG23	1.95	0.82
1:E:77:ASP:C	1:E:78:LEU:HD23	2.04	0.82
1:E:197:LEU:HD12	1:E:439:ARG:NE	1.95	0.82
1:M:623:GLN:HA	1:M:623:GLN:NE2	1.94	0.82
1:D:210:ARG:NH1	1:D:395:HIS:N	2.28	0.81
1:K:949:HIS:HD2	1:K:1020:TRP:HE1	1.24	0.81
1:N:595:THR:HG22	1:N:596:PRO:HA	1.61	0.81
1:P:210:ARG:HH12	1:P:395:HIS:H	1.26	0.81
1:D:572:ASP:HB3	1:D:603:MET:CG	2.07	0.81
1:H:102:ASN:HD22	1:H:201:ASP:HB2	1.45	0.81
1:I:253:TYR:HD1	1:I:253:TYR:H	1.27	0.81
1:I:279:ILE:HD11	1:L:422:PRO:HG2	1.61	0.81
1:C:810:TRP:CH2	1:C:991:MET:HE1	2.16	0.81
1:I:73:TRP:CH2	1:I:187:MET:HB2	2.16	0.81
1:J:100:TYR:CE2	1:J:602:CYS:HB3	2.16	0.81
1:J:102:ASN:ND2	1:J:201:ASP:HB2	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:568:TRP:CD2	1:K:569:ASP:HB3	2.15	0.81
1:L:202:MET:HE3	1:L:357:HIS:CD2	2.14	0.81
1:N:188:VAL:C	1:N:189:LEU:HD23	2.05	0.81
1:P:682:LEU:HD22	1:P:683:PRO:HD2	1.61	0.81
1:D:43:ARG:NH2	1:D:264:GLU:HG2	1.96	0.81
1:J:65:ALA:HB1	1:J:66:PRO:HD2	1.61	0.81
1:K:599:ARG:HB2	1:K:600:GLN:HG3	1.60	0.81
1:M:696:LEU:HD12	1:M:697:THR:H	1.42	0.81
1:N:166:ARG:HG2	1:N:392:TYR:HB2	1.60	0.81
1:E:974:HIS:CE1	1:E:975:LEU:HG	2.15	0.81
1:J:227:VAL:CG1	1:J:240:LEU:HD11	2.11	0.81
1:K:746:ASP:CA	1:K:760:ARG:HG3	2.09	0.81
1:N:281:GLU:HG3	1:O:515:VAL:HG21	1.63	0.81
1:O:822:LEU:HD12	1:O:823:LEU:N	1.95	0.81
1:P:656:VAL:CB	1:P:664:ALA:HB3	2.04	0.81
1:F:338:GLU:O	1:F:339:ASN:C	2.17	0.81
1:H:393:PRO:HD2	1:H:414:ASN:HB2	1.61	0.81
1:E:14:ARG:HG2	1:E:14:ARG:HH11	1.44	0.81
1:G:210:ARG:NH1	1:G:395:HIS:N	2.29	0.81
1:H:890:GLN:HG3	1:H:891:VAL:N	1.94	0.81
1:L:974:HIS:C	1:L:975:LEU:HD23	2.05	0.81
1:N:114:VAL:HG22	1:N:115:PRO:HD2	1.60	0.81
1:N:227:VAL:HG13	1:N:240:LEU:HD11	1.63	0.81
1:H:1018:LEU:HD22	1:H:1019:VAL:N	1.96	0.81
1:J:84:VAL:HG12	1:J:85:VAL:H	1.46	0.81
1:K:768:MET:HG2	1:K:775:GLN:HG2	1.61	0.81
1:M:78:LEU:HB3	1:M:79:PRO:HD2	1.63	0.81
1:M:741:THR:HG22	1:M:742:THR:H	1.46	0.81
1:O:568:TRP:HE1	1:O:604:ASN:ND2	1.77	0.81
1:B:782:ASP:HA	1:B:884:LEU:HD23	1.63	0.81
1:F:36:TRP:CG	1:F:42:ALA:HB2	2.16	0.81
1:H:590:GLY:N	1:H:597:ASN:ND2	2.29	0.81
1:K:188:VAL:C	1:K:189:LEU:HD23	2.05	0.81
1:N:515:VAL:HG21	1:O:281:GLU:CD	2.06	0.81
1:P:460:ASN:ND2	1:P:461:GLU:HG3	1.96	0.81
1:A:427:THR:HA	1:A:436:MET:CE	2.08	0.81
1:C:316:HIS:HA	1:C:323:ILE:HD12	1.61	0.81
1:E:360:HIS:CE1	1:E:362:LEU:HB2	2.16	0.81
1:D:79:PRO:HG2	1:D:80:GLU:CG	2.10	0.80
1:J:100:TYR:CZ	1:J:602:CYS:HB3	2.15	0.80
1:J:770:ILE:HD12	1:J:775:GLN:CD	2.05	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:79:PRO:HG2	1:L:80:GLU:HG2	1.61	0.80
1:L:129:VAL:HG21	1:L:177:LEU:HD13	1.61	0.80
1:L:581:ASN:HB3	1:L:583:ASN:HD21	1.46	0.80
1:M:360:HIS:HE1	1:M:362:LEU:HB2	1.44	0.80
1:M:890:GLN:HG3	1:M:891:VAL:H	1.46	0.80
1:I:949:HIS:CD2	1:I:1020:TRP:HE1	1.98	0.80
1:L:906:TYR:HB3	1:L:907:PRO:HD2	1.64	0.80
1:M:823:LEU:HB2	1:M:839:ALA:O	1.81	0.80
1:O:443:MET:HE3	1:O:456:TRP:CE3	2.16	0.80
1:B:599:ARG:HB2	1:B:600:GLN:HG3	1.61	0.80
1:E:152:LEU:HD12	1:E:153:TRP:N	1.96	0.80
1:G:210:ARG:HH12	1:G:395:HIS:N	1.78	0.80
1:G:237:ARG:CD	1:G:296:GLU:HG2	2.11	0.80
1:H:634:GLN:NE2	1:H:634:GLN:N	2.29	0.80
1:J:786:ARG:HH11	1:J:990:HIS:HE1	1.28	0.80
1:M:114:VAL:HG22	1:M:191:TRP:HB3	1.61	0.80
1:M:355:ASN:HD22	1:M:355:ASN:N	1.75	0.80
1:P:91:GLN:HB3	1:P:98:PRO:HD3	1.62	0.80
1:P:729:THR:C	1:P:730:LEU:HD23	2.06	0.80
1:E:66:PRO:HD2	1:E:67:GLU:HG2	1.62	0.80
1:I:100:TYR:CE1	1:I:602:CYS:HB3	2.17	0.80
1:J:251:ARG:HB3	1:J:253:TYR:CE1	2.15	0.80
1:K:857:ARG:HH11	1:K:857:ARG:HG2	1.46	0.80
1:M:801:ILE:HG23	1:M:808:GLU:HG3	1.63	0.80
1:E:949:HIS:HD2	1:E:1020:TRP:HE1	1.26	0.80
1:M:777:LEU:HD11	1:M:889:ALA:CA	2.11	0.80
1:N:292:ARG:C	1:N:293:LEU:HD23	2.06	0.80
1:N:635:THR:HG23	1:N:681:GLU:HG3	1.63	0.80
1:N:937:LEU:C	1:N:938:ARG:HG2	2.07	0.80
1:A:928:PRO:HB2	1:A:973:ARG:HH11	1.45	0.80
1:E:251:ARG:HB3	1:E:253:TYR:CE1	2.17	0.80
1:F:427:THR:HA	1:F:436:MET:CE	2.09	0.80
1:F:701:VAL:O	1:F:703:PRO:HD3	1.82	0.80
1:H:1018:LEU:HD22	1:H:1019:VAL:H	1.44	0.80
1:K:51:LEU:HD12	1:K:52:ARG:N	1.96	0.80
1:P:140:ARG:HG2	1:P:215:LEU:HB3	1.64	0.80
1:B:894:ARG:NH2	1:B:921:PRO:HD3	1.97	0.80
1:D:197:LEU:HD12	1:D:439:ARG:HE	1.43	0.80
1:I:400:THR:O	1:I:404:ARG:HG3	1.82	0.80
1:K:382:ASN:ND2	1:K:617:LEU:HD21	1.96	0.80
1:O:822:LEU:HD12	1:O:824:GLN:H	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:128:ASN:ND2	1:P:180:GLY:HA2	1.96	0.80
1:F:356:ARG:HD2	1:F:379:MET:HE1	1.63	0.80
1:L:949:HIS:HD2	1:L:1020:TRP:HE1	1.27	0.80
1:P:166:ARG:HB2	1:P:414:ASN:HD22	1.47	0.80
1:A:890:GLN:HG3	1:A:891:VAL:N	1.96	0.80
1:H:474:TRP:CZ2	1:H:478:VAL:HG21	2.17	0.80
1:K:14:ARG:HH11	1:K:14:ARG:HG2	1.44	0.80
1:L:128:ASN:HD21	1:L:180:GLY:HA2	1.47	0.80
1:L:1018:LEU:HD23	1:L:1019:VAL:H	1.46	0.80
1:P:890:GLN:HG3	1:P:891:VAL:N	1.97	0.80
1:G:822:LEU:HD12	1:G:823:LEU:H	1.46	0.80
1:J:372:MET:HE1	1:J:395:HIS:ND1	1.97	0.80
1:K:232:ASN:ND2	1:K:237:ARG:H	1.79	0.80
1:L:400:THR:HG22	1:L:404:ARG:HD2	1.63	0.80
1:L:890:GLN:HG3	1:L:891:VAL:N	1.97	0.80
1:M:391:HIS:N	1:M:391:HIS:ND1	2.29	0.80
1:A:909:ARG:HD3	1:A:993:ILE:HD11	1.64	0.79
1:K:559:TYR:CB	1:K:562:LEU:HD12	2.12	0.79
1:M:355:ASN:ND2	1:M:566:PHE:HB3	1.97	0.79
1:M:367:MET:HE3	1:M:368:ASP:H	1.47	0.79
1:F:654:TRP:NE1	1:F:666:GLY:HA3	1.97	0.79
1:H:718:GLN:HG2	1:H:720:TRP:CZ2	2.16	0.79
1:M:569:ASP:O	1:M:605:GLY:HA2	1.82	0.79
1:B:37:ARG:NH2	1:B:218:PRO:HD3	1.96	0.79
1:M:66:PRO:HB3	1:M:187:MET:CE	2.12	0.79
1:N:305:ILE:HD11	1:N:645:ARG:HB3	1.62	0.79
1:B:340:GLY:C	1:B:341:LEU:HD23	2.07	0.79
1:B:778:THR:CG2	1:B:779:PRO:HD2	2.13	0.79
1:C:7:LEU:HD13	1:C:74:LEU:HD11	1.64	0.79
1:D:597:ASN:HD22	1:D:599:ARG:H	1.30	0.79
1:E:246:MET:HB3	1:E:274:PHE:CZ	2.17	0.79
1:J:822:LEU:HD12	1:J:823:LEU:N	1.97	0.79
1:K:152:LEU:HD12	1:K:153:TRP:N	1.97	0.79
1:N:654:TRP:NE1	1:N:666:GLY:HA3	1.98	0.79
1:P:27:LEU:HD12	1:P:140:ARG:NH1	1.97	0.79
1:C:258:VAL:HG12	1:C:293:LEU:HD11	1.64	0.79
1:E:34:ALA:HB3	1:E:36:TRP:CE3	2.17	0.79
1:G:701:VAL:O	1:G:703:PRO:HD3	1.82	0.79
1:G:740:LEU:HG	1:G:741:THR:H	1.46	0.79
1:H:778:THR:HG22	1:H:779:PRO:HD2	1.63	0.79
1:M:268:ALA:CB	1:M:293:LEU:HD13	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:970:THR:HG23	1:M:975:LEU:HB2	1.63	0.79
1:O:152:LEU:HD12	1:O:153:TRP:N	1.95	0.79
1:O:202:MET:HE3	1:O:357:HIS:CD2	2.17	0.79
1:O:730:LEU:HD12	1:O:731:PRO:CD	2.10	0.79
1:P:274:PHE:HB3	1:P:286:ALA:O	1.82	0.79
1:P:796:SER:CB	1:P:802:ASP:H	1.95	0.79
1:P:814:GLY:O	1:P:815:HIS:C	2.22	0.79
1:D:66:PRO:HB3	1:D:187:MET:HE3	1.64	0.79
1:L:777:LEU:HD12	1:L:889:ALA:CA	2.12	0.79
1:P:77:ASP:O	1:P:78:LEU:HD23	1.82	0.79
1:P:894:ARG:CZ	1:P:921:PRO:HD3	2.12	0.79
1:D:202:MET:HE3	1:D:357:HIS:CD2	2.16	0.79
1:E:26:ARG:NH1	1:E:442:ARG:NH1	2.30	0.79
1:F:356:ARG:HD2	1:F:379:MET:CE	2.12	0.79
1:G:833:ALA:CB	1:G:859:ASP:HA	2.12	0.79
1:I:429:ASP:OD1	1:I:431:ARG:HD3	1.83	0.79
1:L:23:GLN:HB3	1:L:26:ARG:NH2	1.98	0.79
1:L:103:VAL:HG22	1:L:418:HIS:CE1	2.18	0.79
1:L:227:VAL:HG12	1:L:240:LEU:HD11	1.62	0.79
1:M:963:SER:O	1:M:964:GLN:C	2.26	0.79
1:P:801:ILE:O	1:P:803:PRO:HD3	1.83	0.79
1:E:7:LEU:CD1	1:E:74:LEU:HD21	2.13	0.79
1:M:467:ASN:O	1:M:471:LEU:HD12	1.83	0.79
1:O:454:ILE:HG13	1:O:455:ILE:HG13	1.64	0.79
1:P:259:SER:CA	1:P:269:SER:HB2	2.13	0.79
1:C:654:TRP:CE2	1:C:666:GLY:HA3	2.17	0.79
1:E:778:THR:HB	1:E:887:GLN:HB3	1.64	0.79
1:F:38:ASN:ND2	1:F:41:GLU:H	1.81	0.79
1:I:227:VAL:CG1	1:I:240:LEU:HD11	2.11	0.79
1:J:672:VAL:HG13	1:J:678:GLN:HB2	1.64	0.79
1:K:360:HIS:HE1	1:K:362:LEU:HB2	1.47	0.79
1:L:372:MET:HG2	1:L:401:LEU:HD12	1.64	0.79
1:E:890:GLN:HG3	1:E:891:VAL:N	1.96	0.79
1:H:166:ARG:HG2	1:H:414:ASN:ND2	1.96	0.79
1:I:856:TYR:CD2	1:I:864:MET:HE2	2.17	0.79
1:K:202:MET:HE3	1:K:357:HIS:CD2	2.17	0.79
1:K:777:LEU:HD11	1:K:889:ALA:HA	1.65	0.79
1:M:129:VAL:HG23	1:M:182:ASN:HD22	1.47	0.79
1:B:441:THR:HG22	1:B:474:TRP:CH2	2.18	0.78
1:I:63:PHE:HB3	1:I:64:PRO:HD2	1.65	0.78
1:I:433:LEU:HB3	1:I:434:PRO:HD3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:307:ASN:O	1:M:308:LEU:HD23	1.83	0.78
1:M:777:LEU:HD12	1:M:887:GLN:O	1.82	0.78
1:N:282:ARG:NH1	1:O:419:GLY:HA2	1.98	0.78
1:P:213:SER:O	1:P:214:LEU:HD23	1.82	0.78
1:G:597:ASN:HD22	1:G:599:ARG:H	1.28	0.78
1:G:789:LEU:CD1	1:G:993:ILE:HG22	2.12	0.78
1:J:906:TYR:HB3	1:J:907:PRO:HD2	1.65	0.78
1:K:232:ASN:HD21	1:K:237:ARG:N	1.80	0.78
1:L:440:VAL:CG2	1:L:471:LEU:HD13	2.12	0.78
1:M:369:GLU:O	1:M:373:VAL:HG23	1.83	0.78
1:N:282:ARG:HG3	1:O:423:MET:HG3	1.65	0.78
1:P:316:HIS:HA	1:P:323:ILE:CD1	2.13	0.78
1:D:78:LEU:HB3	1:D:79:PRO:HD2	1.65	0.78
1:L:801:ILE:O	1:L:803:PRO:HD3	1.84	0.78
1:P:36:TRP:CD1	1:P:41:GLU:HB3	2.18	0.78
1:H:23:GLN:HB3	1:H:26:ARG:HH21	1.47	0.78
1:L:217:LYS:HG2	1:L:324:GLU:OE2	1.83	0.78
1:M:279:ILE:HD11	1:P:424:ASN:HB2	1.63	0.78
1:B:856:TYR:HD2	1:B:864:MET:HE2	1.49	0.78
1:D:906:TYR:HB3	1:D:907:PRO:HD2	1.66	0.78
1:E:701:VAL:HG22	1:E:714:ILE:CD1	2.14	0.78
1:H:125:LEU:HD12	1:H:126:THR:N	1.97	0.78
1:L:427:THR:CA	1:L:436:MET:HE1	2.04	0.78
1:M:131:GLU:HB2	1:M:135:GLN:NE2	1.97	0.78
1:P:387:VAL:CG1	1:P:407:LEU:HD13	2.14	0.78
1:P:464:HIS:HB2	1:P:489:GLY:HA3	1.66	0.78
1:C:829:THR:C	1:C:830:LEU:HD12	2.09	0.78
1:H:570:TRP:HD1	1:H:571:VAL:HG22	1.49	0.78
1:H:928:PRO:HB2	1:H:973:ARG:HH11	1.49	0.78
1:N:746:ASP:HA	1:N:760:ARG:HG3	1.65	0.78
1:O:128:ASN:ND2	1:O:180:GLY:HA2	1.99	0.78
1:P:210:ARG:HH12	1:P:395:HIS:N	1.80	0.78
1:I:354:VAL:CG1	1:I:379:MET:HE2	2.14	0.78
1:E:571:VAL:HG12	1:E:607:VAL:HG23	1.65	0.78
1:I:43:ARG:HH21	1:I:264:GLU:HG2	1.49	0.78
1:K:197:LEU:HD22	1:K:415:ILE:HG23	1.64	0.78
1:L:555:ALA:O	1:L:556:PHE:C	2.26	0.78
1:B:292:ARG:C	1:B:293:LEU:HD23	2.08	0.78
1:E:578:TYR:CE1	1:E:584:PRO:HB3	2.19	0.78
1:F:129:VAL:HG11	1:F:177:LEU:HD13	1.65	0.78
1:G:18:ASN:ND2	1:G:21:VAL:HG23	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:147:ASN:HB2	1:H:209:PHE:HE1	1.47	0.78
1:L:583:ASN:N	1:L:583:ASN:ND2	2.31	0.78
1:B:377:LEU:HD23	1:B:708:TRP:HA	1.66	0.78
1:B:423:MET:HG3	1:C:282:ARG:HG3	1.64	0.78
1:L:810:TRP:CH2	1:L:991:MET:HE2	2.19	0.78
1:L:928:PRO:HB2	1:L:973:ARG:NH1	1.98	0.78
1:M:260:LEU:HD12	1:M:261:TRP:H	1.47	0.78
1:P:114:VAL:HB	1:P:115:PRO:HD2	1.66	0.78
1:F:307:ASN:O	1:F:308:LEU:HD23	1.83	0.77
1:H:164:ASP:OD2	1:H:167:LEU:HD12	1.84	0.77
1:H:205:MET:HE3	1:H:365:GLN:CG	2.15	0.77
1:H:609:ALA:N	3:H:1289:HOH:O	2.16	0.77
1:I:653:HIS:CD2	1:I:667:GLU:HG2	2.19	0.77
1:P:926:TYR:O	1:P:928:PRO:HD3	1.84	0.77
1:A:685:LEU:HB3	1:A:686:PRO:HD2	1.66	0.77
1:F:438:GLU:O	1:F:442:ARG:HG3	1.83	0.77
1:F:595:THR:HG23	1:F:596:PRO:HA	1.67	0.77
1:H:36:TRP:O	1:H:37:ARG:HD3	1.84	0.77
1:I:440:VAL:O	1:I:444:VAL:HG23	1.84	0.77
1:J:441:THR:O	1:J:445:GLN:HG3	1.84	0.77
1:L:890:GLN:HG3	1:L:891:VAL:H	1.49	0.77
1:M:131:GLU:HB2	1:M:135:GLN:HE22	1.49	0.77
1:M:202:MET:HE3	1:M:357:HIS:HD2	1.49	0.77
1:M:268:ALA:HB1	1:M:293:LEU:HD13	1.65	0.77
1:P:894:ARG:NH2	1:P:921:PRO:HD3	2.00	0.77
1:D:375:ASP:O	1:D:379:MET:HG3	1.84	0.77
1:G:254:LEU:O	1:G:255:ARG:HD3	1.84	0.77
1:H:696:LEU:HD12	1:H:697:THR:H	1.46	0.77
1:M:512:PHE:CE2	1:M:517:LYS:HG3	2.20	0.77
1:N:668:VAL:HG11	1:N:680:ILE:CD1	2.15	0.77
1:O:53:SER:O	1:O:54:LEU:HD23	1.85	0.77
1:P:36:TRP:HD1	1:P:41:GLU:HB3	1.50	0.77
1:B:262:GLN:HE22	1:B:299:LYS:HD2	1.50	0.77
1:F:38:ASN:ND2	1:F:41:GLU:HG3	1.98	0.77
1:F:66:PRO:HB3	1:F:187:MET:CE	2.15	0.77
1:G:685:LEU:HB3	1:G:686:PRO:HD2	1.65	0.77
1:J:111:PRO:HG3	1:J:196:TYR:CE1	2.20	0.77
1:M:440:VAL:O	1:M:444:VAL:HG23	1.84	0.77
1:N:701:VAL:O	1:N:703:PRO:HD3	1.85	0.77
1:G:906:TYR:HB3	1:G:907:PRO:HD2	1.65	0.77
1:L:166:ARG:HG2	1:L:392:TYR:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:654:TRP:NE1	1:L:666:GLY:HA3	1.99	0.77
1:O:597:ASN:ND2	1:O:599:ARG:H	1.81	0.77
1:P:23:GLN:O	1:P:24:LEU:HD13	1.84	0.77
1:C:427:THR:HA	1:C:436:MET:CE	2.07	0.77
1:E:123:TYR:CG	1:E:208:ILE:HD12	2.19	0.77
1:F:6:SER:OG	1:F:9:VAL:HG23	1.85	0.77
1:J:355:ASN:HD22	1:J:355:ASN:N	1.80	0.77
1:L:833:ALA:HB1	1:L:858:ILE:O	1.84	0.77
1:M:231:PHE:CD2	1:M:238:ALA:HB2	2.19	0.77
1:M:251:ARG:HD2	1:M:253:TYR:OH	1.85	0.77
1:P:360:HIS:CG	1:P:361:PRO:HD2	2.19	0.77
1:B:888:LEU:O	1:B:981:GLY:HA3	1.85	0.77
1:C:37:ARG:HH11	1:C:37:ARG:HG3	1.50	0.77
1:D:354:VAL:CG1	1:D:379:MET:HE2	2.14	0.77
1:E:35:SER:O	1:E:50:GLN:HG2	1.85	0.77
1:H:240:LEU:HD12	1:H:241:GLU:N	1.98	0.77
1:I:59:ARG:NH2	1:I:81:ALA:HB3	1.99	0.77
1:I:487:GLU:HG2	1:I:491:ALA:HB2	1.67	0.77
1:K:890:GLN:HG3	1:K:891:VAL:N	2.00	0.77
1:P:145:GLY:HA3	1:P:210:ARG:HG3	1.66	0.77
1:A:937:LEU:O	1:A:938:ARG:HG2	1.85	0.77
1:F:40:GLU:HG2	1:F:43:ARG:NH1	1.99	0.77
1:H:440:VAL:O	1:H:444:VAL:HG23	1.84	0.77
1:K:878:HIS:CD2	1:K:1010:SER:HB3	2.19	0.77
1:O:100:TYR:CE1	1:O:598:ASP:HB2	2.19	0.77
1:B:570:TRP:CD1	1:B:571:VAL:HG13	2.19	0.77
1:E:59:ARG:NH2	1:E:81:ALA:HB3	2.00	0.77
1:F:599:ARG:HD2	1:F:600:GLN:OE1	1.83	0.77
1:G:360:HIS:HE1	1:G:362:LEU:HB2	1.47	0.77
1:I:651:LEU:HD12	1:I:652:LEU:N	2.00	0.77
1:J:356:ARG:HG2	1:J:356:ARG:HH11	1.50	0.77
1:N:822:LEU:HD12	1:N:824:GLN:H	1.49	0.77
1:P:18:ASN:CG	1:P:21:VAL:HG23	2.09	0.77
1:E:4:THR:HG21	1:H:12:GLN:HG2	1.65	0.77
1:E:79:PRO:HG2	1:E:80:GLU:HG3	1.67	0.77
1:L:125:LEU:HD12	1:L:126:THR:N	1.99	0.77
1:M:240:LEU:HD12	1:M:241:GLU:H	1.49	0.77
1:A:473:ARG:O	1:A:473:ARG:HD3	1.85	0.76
1:C:38:ASN:ND2	1:C:41:GLU:HG3	2.00	0.76
1:C:654:TRP:NE1	1:C:666:GLY:HA3	1.99	0.76
1:E:930:VAL:HA	1:E:973:ARG:HD3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:894:ARG:NH2	1:F:921:PRO:HD3	2.00	0.76
1:G:23:GLN:O	1:G:24:LEU:HD13	1.85	0.76
1:I:433:LEU:HD22	1:I:467:ASN:CG	2.10	0.76
1:J:881:ARG:HD3	1:J:987:ASP:OD1	1.85	0.76
1:M:3:ILE:O	1:M:6:SER:HB3	1.85	0.76
1:M:123:TYR:CD2	1:M:208:ILE:HD12	2.20	0.76
1:P:103:VAL:O	1:P:104:THR:C	2.26	0.76
1:P:650:GLU:HB3	1:P:670:LEU:CB	2.14	0.76
1:C:36:TRP:O	1:C:37:ARG:HD3	1.84	0.76
1:C:246:MET:HE3	1:C:246:MET:C	2.09	0.76
1:D:930:VAL:HA	1:D:973:ARG:HD3	1.66	0.76
1:I:965:GLN:O	1:I:969:GLU:HG3	1.86	0.76
1:J:786:ARG:HH11	1:J:990:HIS:CE1	2.03	0.76
1:L:227:VAL:HG12	1:L:240:LEU:CD1	2.15	0.76
1:M:237:ARG:HH11	1:M:237:ARG:HG3	1.49	0.76
1:M:909:ARG:HG2	1:M:993:ILE:HD11	1.66	0.76
1:O:682:LEU:HB3	1:O:683:PRO:HD2	1.65	0.76
1:P:696:LEU:HD12	1:P:697:THR:H	1.47	0.76
1:D:105:TYR:CE1	1:D:199:ASP:HB2	2.19	0.76
1:H:66:PRO:HB3	1:H:187:MET:HE1	1.67	0.76
1:L:682:LEU:HB3	1:L:683:PRO:HD2	1.68	0.76
1:M:395:HIS:CG	1:M:396:PRO:HD2	2.20	0.76
1:M:678:GLN:O	1:M:679:LEU:HD23	1.85	0.76
1:N:744:GLU:O	1:N:760:ARG:HD3	1.86	0.76
1:B:555:ALA:O	1:B:556:PHE:C	2.29	0.76
1:L:59:ARG:NH2	1:L:81:ALA:HB3	2.01	0.76
1:E:246:MET:HG2	1:E:274:PHE:CE2	2.20	0.76
1:F:14:ARG:HG2	1:F:16:TRP:CZ2	2.20	0.76
1:H:66:PRO:HB3	1:H:187:MET:CE	2.15	0.76
1:H:500:CYS:HA	1:H:534:ILE:O	1.86	0.76
1:J:102:ASN:HD22	1:J:201:ASP:HB2	1.50	0.76
1:J:454:ILE:HG13	1:J:455:ILE:HG13	1.67	0.76
1:M:66:PRO:HB3	1:M:187:MET:HE1	1.64	0.76
1:P:253:TYR:HA	1:P:255:ARG:NH1	1.99	0.76
1:C:655:MET:HG2	1:C:656:VAL:N	1.98	0.76
1:D:427:THR:HA	1:D:436:MET:CE	2.12	0.76
1:J:6:SER:OG	1:J:9:VAL:HG23	1.86	0.76
1:J:662:PRO:C	1:J:663:LEU:HD23	2.11	0.76
1:L:810:TRP:CZ2	1:L:991:MET:HE2	2.21	0.76
1:O:443:MET:HE3	1:O:456:TRP:HE3	1.50	0.76
1:A:568:TRP:HE1	1:A:604:ASN:HD22	1.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:433:LEU:O	1:E:437:SER:HB3	1.86	0.76
1:G:833:ALA:HB1	1:G:858:ILE:O	1.84	0.76
1:I:275:GLY:HA2	1:I:286:ALA:HA	1.67	0.76
1:I:413:ALA:HB2	1:I:443:MET:CE	2.16	0.76
1:K:369:GLU:O	1:K:373:VAL:HG23	1.85	0.76
1:M:256:VAL:HG23	1:M:274:PHE:CE1	2.21	0.76
1:P:114:VAL:HB	1:P:115:PRO:CD	2.16	0.76
1:P:205:MET:HE1	1:P:364:GLY:C	2.11	0.76
1:B:436:MET:HE3	1:B:467:ASN:HD22	1.49	0.76
1:B:856:TYR:CD2	1:B:864:MET:HE2	2.20	0.76
1:H:36:TRP:CE2	1:H:42:ALA:HA	2.20	0.76
1:K:167:LEU:HB3	1:K:168:PRO:HD2	1.66	0.76
1:M:412:GLU:HG3	1:M:457:SER:HB3	1.68	0.76
1:M:599:ARG:HD2	1:M:600:GLN:OE1	1.86	0.76
1:O:789:LEU:HD11	1:O:993:ILE:HG22	1.67	0.76
1:E:52:ARG:HB3	1:E:214:LEU:HB2	1.68	0.76
1:F:152:LEU:HD12	1:F:153:TRP:H	1.51	0.76
1:I:622:HIS:O	1:I:625:GLN:HG2	1.86	0.76
1:K:125:LEU:HD12	1:K:126:THR:H	1.50	0.76
1:K:225:PHE:HE2	1:K:328:CYS:HG	1.34	0.76
1:O:920:LEU:HB3	1:O:921:PRO:HD2	1.66	0.76
1:P:210:ARG:NH1	1:P:395:HIS:N	2.33	0.76
1:C:102:ASN:HD22	1:C:201:ASP:HB2	1.50	0.76
1:G:579:ASP:OD2	1:G:583:ASN:HB2	1.85	0.76
1:H:205:MET:HE1	1:H:364:GLY:C	2.10	0.76
1:H:833:ALA:HB2	1:H:859:ASP:HA	1.68	0.76
1:I:34:ALA:HB3	1:I:36:TRP:CZ3	2.21	0.76
1:I:682:LEU:HB3	1:I:683:PRO:HD2	1.68	0.76
1:I:778:THR:HB	1:I:887:GLN:H	1.51	0.76
1:K:750:GLU:CG	1:K:755:ARG:HG2	2.16	0.76
1:K:974:HIS:O	1:K:975:LEU:HD23	1.85	0.76
1:L:637:GLU:HA	1:L:679:LEU:HD23	1.67	0.76
1:F:102:ASN:HD22	1:F:201:ASP:HB2	1.51	0.75
1:H:7:LEU:HD13	1:H:74:LEU:HD11	1.66	0.75
1:H:486:TYR:CE2	1:H:488:GLY:HA3	2.21	0.75
1:H:685:LEU:HB3	1:H:686:PRO:HD2	1.66	0.75
1:J:919:ASP:C	1:J:920:LEU:HD23	2.10	0.75
1:K:635:THR:OG1	1:K:681:GLU:HG2	1.86	0.75
1:K:662:PRO:C	1:K:663:LEU:HD23	2.11	0.75
1:K:768:MET:HG3	1:K:769:TRP:N	1.91	0.75
1:L:654:TRP:CE2	1:L:666:GLY:HA3	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:790:ASP:HA	1:P:793:ILE:HD12	1.68	0.75
1:B:896:ASN:HB2	1:B:919:ASP:OD1	1.85	0.75
1:C:658:LEU:O	1:C:661:LYS:HD3	1.86	0.75
1:E:395:HIS:CG	1:E:396:PRO:HD2	2.21	0.75
1:H:274:PHE:HB3	1:H:286:ALA:O	1.84	0.75
1:K:26:ARG:NH1	1:K:442:ARG:HH12	1.82	0.75
1:L:78:LEU:HB3	1:L:79:PRO:HD2	1.67	0.75
1:M:471:LEU:O	1:M:475:ILE:HG13	1.87	0.75
1:M:789:LEU:O	1:M:793:ILE:HG13	1.86	0.75
1:N:241:GLU:HG3	1:N:292:ARG:HG2	1.69	0.75
1:P:14:ARG:HG2	1:P:14:ARG:HH11	1.51	0.75
1:A:433:LEU:HD13	1:A:467:ASN:HB3	1.67	0.75
1:D:719:GLN:NE2	1:D:914:CYS:HB2	2.01	0.75
1:E:167:LEU:HD23	1:E:446:ARG:NH1	2.00	0.75
1:E:758:PHE:O	1:E:759:ASN:C	2.24	0.75
1:G:260:LEU:O	1:G:267:VAL:HG23	1.85	0.75
1:L:66:PRO:HB3	1:L:187:MET:CE	2.16	0.75
1:M:285:TYR:HB3	1:M:288:ARG:HG3	1.69	0.75
1:N:392:TYR:HB3	1:N:414:ASN:HB2	1.67	0.75
1:P:24:LEU:HB2	1:P:161:TYR:HB3	1.68	0.75
1:A:965:GLN:O	1:A:969:GLU:HG3	1.87	0.75
1:G:7:LEU:HD12	1:G:74:LEU:HD11	1.69	0.75
1:I:419:GLY:HA2	1:L:282:ARG:NH1	2.01	0.75
1:I:587:ALA:HB1	1:I:591:ASP:HB2	1.67	0.75
1:K:531:ARG:HB3	1:K:532:PRO:HD2	1.69	0.75
1:K:697:THR:OG1	1:K:719:GLN:HB2	1.87	0.75
1:M:413:ALA:HA	1:M:443:MET:HE2	1.68	0.75
1:M:996:ASP:HB2	1:M:1002:SER:HB2	1.67	0.75
1:O:789:LEU:CD1	1:O:993:ILE:HG22	2.16	0.75
1:O:856:TYR:CD2	1:O:864:MET:HE2	2.20	0.75
1:P:740:LEU:HD12	1:P:741:THR:N	2.00	0.75
1:B:202:MET:HE3	1:B:357:HIS:CD2	2.22	0.75
1:C:190:ARG:HD3	1:C:191:TRP:CZ2	2.22	0.75
1:E:330:VAL:HA	3:E:1266:HOH:O	1.85	0.75
1:H:100:TYR:HB2	1:H:203:TRP:CE3	2.21	0.75
1:H:590:GLY:N	1:H:597:ASN:HD22	1.84	0.75
1:J:197:LEU:HD12	1:J:439:ARG:HE	1.50	0.75
1:N:352:ARG:HB2	1:N:385:ASN:HB2	1.68	0.75
1:O:227:VAL:HG13	1:O:240:LEU:HD11	1.69	0.75
1:O:654:TRP:CE2	1:O:666:GLY:HA3	2.22	0.75
1:A:529:GLU:OE1	1:A:531:ARG:HG3	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:668:VAL:HG13	1:A:669:PRO:HD2	1.69	0.75
1:B:856:TYR:CD2	1:B:866:ILE:HD13	2.21	0.75
1:K:770:ILE:HD12	1:K:775:GLN:OE1	1.86	0.75
1:N:658:LEU:HD12	1:N:659:ASP:N	2.02	0.75
1:O:227:VAL:CG1	1:O:240:LEU:HD11	2.17	0.75
1:P:16:TRP:CD1	1:P:17:GLU:HG3	2.21	0.75
1:P:218:PRO:O	1:P:221:GLN:HB3	1.87	0.75
1:A:745:MET:HE2	1:A:761:GLN:HE22	1.49	0.75
1:D:581:ASN:HB2	1:D:583:ASN:HD22	1.51	0.75
1:E:360:HIS:ND1	1:E:361:PRO:HD2	2.01	0.75
1:F:559:TYR:HB2	1:F:562:LEU:HD12	1.68	0.75
1:J:114:VAL:HB	1:J:115:PRO:HD2	1.68	0.75
1:K:833:ALA:HB1	1:K:858:ILE:O	1.87	0.75
1:M:310:ARG:HG3	1:M:328:CYS:O	1.86	0.75
1:N:896:ASN:HB2	1:N:919:ASP:OD1	1.86	0.75
1:O:579:ASP:OD2	1:O:583:ASN:HB2	1.87	0.75
1:B:305:ILE:HD11	1:B:645:ARG:HB3	1.66	0.75
1:G:686:PRO:C	1:G:688:PRO:HD3	2.12	0.75
1:H:50:GLN:CG	1:H:216:HIS:HB3	2.15	0.75
1:K:738:PRO:HB2	1:K:834:VAL:HG23	1.68	0.75
1:M:166:ARG:HG3	1:M:392:TYR:HB2	1.68	0.75
1:M:747:PHE:CE1	1:M:760:ARG:HD2	2.21	0.75
1:M:1000:SER:HB2	1:M:1001:PRO:HD2	1.67	0.75
1:D:57:GLU:HG2	1:D:83:THR:CG2	2.17	0.75
1:D:79:PRO:HG2	1:D:80:GLU:HG3	1.69	0.75
1:E:685:LEU:HB3	1:E:686:PRO:HD2	1.67	0.75
1:M:668:VAL:HG13	1:M:669:PRO:HD2	1.67	0.75
1:O:63:PHE:HB3	1:O:64:PRO:HD2	1.68	0.75
1:E:822:LEU:HD12	1:E:823:LEU:N	2.00	0.74
1:L:128:ASN:ND2	1:L:180:GLY:HA2	2.01	0.74
1:M:334:GLU:O	1:M:344:LEU:HA	1.87	0.74
1:M:439:ARG:HG3	1:M:439:ARG:HH11	1.50	0.74
1:P:572:ASP:HB3	1:P:603:MET:HG3	1.69	0.74
1:C:577:LYS:O	1:C:584:PRO:HA	1.87	0.74
1:E:894:ARG:HH22	1:E:921:PRO:HD3	1.51	0.74
1:G:188:VAL:O	1:G:189:LEU:HD23	1.88	0.74
1:G:369:GLU:O	1:G:373:VAL:HG23	1.87	0.74
1:I:134:LEU:HD12	1:I:179:ALA:CB	2.15	0.74
1:J:579:ASP:OD2	1:J:583:ASN:HB2	1.87	0.74
1:M:7:LEU:HD12	1:M:74:LEU:CD1	2.13	0.74
1:P:796:SER:HB2	1:P:802:ASP:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:996:ASP:HB2	1:P:1002:SER:HB2	1.69	0.74
1:E:120:THR:HG21	1:E:187:MET:HE3	1.70	0.74
1:E:439:ARG:HG2	1:E:439:ARG:HH11	1.52	0.74
1:F:66:PRO:HB3	1:F:187:MET:HE1	1.69	0.74
1:J:340:GLY:O	1:J:341:LEU:HD23	1.86	0.74
1:K:443:MET:HE3	1:K:456:TRP:CE3	2.23	0.74
1:M:197:LEU:HD12	1:M:439:ARG:NE	2.00	0.74
1:M:300:LEU:O	1:M:307:ASN:HB2	1.86	0.74
1:M:970:THR:CG2	1:M:975:LEU:HB2	2.16	0.74
1:N:210:ARG:HH11	1:N:395:HIS:HB2	1.52	0.74
1:P:706:THR:HG21	1:P:708:TRP:CZ2	2.22	0.74
1:E:801:ILE:O	1:E:803:PRO:HD3	1.87	0.74
1:G:258:VAL:HG12	1:G:293:LEU:HD11	1.68	0.74
1:O:166:ARG:HG2	1:O:392:TYR:CB	2.18	0.74
1:P:398:TRP:CE3	1:P:398:TRP:HA	2.21	0.74
1:P:898:LEU:HD23	1:P:898:LEU:O	1.87	0.74
1:B:210:ARG:HH12	1:B:394:ASN:C	1.96	0.74
1:C:246:MET:HE2	1:C:287:ASP:HB2	1.67	0.74
1:D:1004:SER:HB2	1:D:1006:GLU:OE2	1.88	0.74
1:I:474:TRP:O	1:I:478:VAL:HG23	1.87	0.74
1:P:166:ARG:CG	1:P:392:TYR:HB2	2.17	0.74
1:C:701:VAL:O	1:C:703:PRO:HD3	1.88	0.74
1:E:622:HIS:O	1:E:625:GLN:HG2	1.87	0.74
1:F:542:MET:HE3	1:F:601:PHE:HA	1.68	0.74
1:K:254:LEU:O	1:K:255:ARG:HD3	1.88	0.74
1:L:210:ARG:NH1	1:L:395:HIS:N	2.35	0.74
1:L:581:ASN:HB3	1:L:583:ASN:ND2	2.02	0.74
1:N:395:HIS:CG	1:N:396:PRO:HD2	2.23	0.74
1:N:433:LEU:HB3	1:N:434:PRO:HD3	1.70	0.74
1:O:10:VAL:HG12	1:O:11:LEU:CD2	2.16	0.74
1:O:210:ARG:NH1	1:O:395:HIS:N	2.35	0.74
1:H:801:ILE:O	1:H:803:PRO:HD3	1.87	0.74
1:M:213:SER:O	1:M:214:LEU:HD23	1.86	0.74
1:M:708:TRP:CZ3	1:M:709:SER:HB3	2.22	0.74
1:N:559:TYR:HB2	1:N:562:LEU:HD12	1.69	0.74
1:P:89:ASN:ND2	1:P:205:MET:HB3	2.03	0.74
1:B:746:ASP:CA	1:B:760:ARG:HG3	2.17	0.74
1:C:237:ARG:HG3	1:C:237:ARG:NH1	2.01	0.74
1:E:965:GLN:O	1:E:969:GLU:HG3	1.87	0.74
1:G:907:PRO:HA	1:G:910:LEU:HD21	1.70	0.74
1:I:684:GLU:HG2	1:I:685:LEU:N	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:920:LEU:HB3	1:J:921:PRO:HD2	1.69	0.74
1:K:625:GLN:CD	1:K:716:ALA:HB1	2.13	0.74
1:M:456:TRP:HZ2	1:M:482:ARG:HH11	1.34	0.74
1:N:240:LEU:HD12	1:N:241:GLU:H	1.53	0.74
1:O:528:GLY:O	1:O:530:THR:HG23	1.88	0.74
1:O:579:ASP:CG	1:O:583:ASN:HB2	2.13	0.74
1:A:202:MET:HE3	1:A:357:HIS:HD2	1.53	0.74
1:C:43:ARG:O	1:C:310:ARG:HD3	1.88	0.74
1:D:746:ASP:O	1:D:760:ARG:HD2	1.87	0.74
1:H:205:MET:CE	1:H:365:GLN:HG3	2.17	0.74
1:H:660:GLY:O	1:H:662:PRO:HD3	1.87	0.74
1:I:91:GLN:HB3	1:I:98:PRO:HD3	1.68	0.74
1:J:166:ARG:HG2	1:J:392:TYR:HB2	1.69	0.74
1:J:701:VAL:O	1:J:703:PRO:HD3	1.88	0.74
1:K:777:LEU:CD1	1:K:889:ALA:HA	2.18	0.74
1:K:824:GLN:O	1:K:838:THR:HA	1.88	0.74
1:L:486:TYR:CE2	1:L:488:GLY:HA3	2.22	0.74
1:O:770:ILE:HD11	1:O:1022:GLN:HG2	1.69	0.74
1:P:440:VAL:CG1	1:P:475:ILE:HD11	2.16	0.74
1:E:7:LEU:HD11	1:E:74:LEU:HD21	1.69	0.74
1:G:436:MET:HE3	1:G:467:ASN:HD22	1.51	0.74
1:N:740:LEU:HD12	1:N:741:THR:H	1.50	0.74
1:P:469:ASP:O	1:P:472:TYR:HB3	1.87	0.74
1:C:920:LEU:HB3	1:C:921:PRO:HD2	1.69	0.73
1:E:454:ILE:HG13	1:E:455:ILE:HG13	1.69	0.73
1:H:472:TYR:O	1:H:476:LYS:HG2	1.88	0.73
1:J:43:ARG:NH2	1:J:264:GLU:HG3	2.03	0.73
1:J:759:ASN:HB2	1:J:766:SER:OG	1.88	0.73
1:M:36:TRP:CE2	1:M:42:ALA:HA	2.23	0.73
1:N:102:ASN:HA	1:N:201:ASP:OD1	1.88	0.73
1:P:3:ILE:O	1:P:6:SER:HB3	1.88	0.73
1:P:360:HIS:CE1	1:P:362:LEU:HB2	2.22	0.73
1:P:658:LEU:HB2	1:P:663:LEU:HD11	1.69	0.73
1:A:85:VAL:O	1:A:88:SER:HB3	1.88	0.73
1:F:40:GLU:HG2	1:F:43:ARG:HH12	1.51	0.73
1:F:571:VAL:HG13	1:F:607:VAL:HG23	1.70	0.73
1:F:654:TRP:CE2	1:F:666:GLY:HA3	2.22	0.73
1:G:237:ARG:HD3	1:G:296:GLU:HG2	1.69	0.73
1:H:23:GLN:O	1:H:24:LEU:HD13	1.88	0.73
1:H:572:ASP:CB	1:H:603:MET:HB3	2.18	0.73
1:J:436:MET:HE3	1:J:467:ASN:ND2	2.00	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:682:LEU:HB3	1:M:683:PRO:HD2	1.68	0.73
1:M:778:THR:HG22	1:M:779:PRO:HD2	1.69	0.73
1:P:102:ASN:ND2	1:P:201:ASP:HB2	2.02	0.73
1:P:701:VAL:HG22	1:P:714:ILE:HD13	1.69	0.73
1:B:510:GLN:HG3	3:B:1207:HOH:O	1.88	0.73
1:B:777:LEU:CD1	1:B:889:ALA:HA	2.17	0.73
1:C:810:TRP:HH2	1:C:991:MET:HE1	1.53	0.73
1:J:377:LEU:HD22	1:J:708:TRP:CA	2.18	0.73
1:L:100:TYR:HB2	1:L:203:TRP:CE3	2.23	0.73
1:N:14:ARG:HG2	1:N:14:ARG:HH11	1.53	0.73
1:E:789:LEU:HD13	1:E:993:ILE:HG22	1.70	0.73
1:I:312:VAL:HG13	1:I:327:ALA:HB2	1.70	0.73
1:J:890:GLN:HG3	1:J:891:VAL:N	2.02	0.73
1:K:210:ARG:HH12	1:K:394:ASN:C	1.96	0.73
1:K:558:GLN:O	1:L:522:LYS:HE3	1.89	0.73
1:L:114:VAL:HG22	1:L:191:TRP:HB3	1.70	0.73
1:L:894:ARG:HH21	1:L:921:PRO:CD	2.01	0.73
1:M:102:ASN:HD22	1:M:201:ASP:CB	2.01	0.73
1:O:929:TYR:O	1:O:930:VAL:C	2.32	0.73
1:A:279:ILE:HD11	1:D:422:PRO:HG2	1.70	0.73
1:D:830:LEU:HB2	1:D:833:ALA:O	1.88	0.73
1:G:26:ARG:HD2	1:G:442:ARG:NH2	2.04	0.73
1:L:959:ILE:CG1	1:L:984:LEU:HD12	2.19	0.73
1:N:942:ARG:HA	1:N:953:GLY:O	1.89	0.73
1:P:343:LEU:N	1:P:343:LEU:HD23	2.04	0.73
1:G:559:TYR:HB2	1:G:562:LEU:HD12	1.69	0.73
1:L:1004:SER:HB2	1:L:1006:GLU:OE2	1.87	0.73
1:M:518:TRP:O	1:M:519:SER:C	2.28	0.73
1:N:651:LEU:HD13	1:N:669:PRO:HA	1.71	0.73
1:O:66:PRO:HB3	1:O:187:MET:HE3	1.70	0.73
1:P:316:HIS:CA	1:P:323:ILE:HD13	2.15	0.73
1:P:355:ASN:ND2	1:P:566:PHE:HB3	2.03	0.73
1:A:369:GLU:HG3	1:A:397:LEU:HD21	1.70	0.73
1:A:622:HIS:O	1:A:625:GLN:HG2	1.89	0.73
1:C:377:LEU:CD2	1:C:708:TRP:HA	2.18	0.73
1:D:251:ARG:HD2	1:D:253:TYR:OH	1.88	0.73
1:D:360:HIS:CG	1:D:361:PRO:HD2	2.24	0.73
1:E:78:LEU:HB3	1:E:79:PRO:HD2	1.71	0.73
1:H:78:LEU:HD23	1:H:78:LEU:N	2.04	0.73
1:H:367:MET:CE	1:H:372:MET:HG3	2.18	0.73
1:J:60:PHE:HB3	1:J:84:VAL:HG21	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:433:LEU:HB3	1:J:434:PRO:HD3	1.68	0.73
1:O:262:GLN:NE2	1:O:299:LYS:HD2	2.03	0.73
1:P:209:PHE:HE1	1:P:210:ARG:HE	1.37	0.73
1:E:745:MET:HG2	1:E:761:GLN:NE2	2.03	0.73
1:F:131:GLU:O	1:F:132:SER:C	2.29	0.73
1:K:102:ASN:HD22	1:K:201:ASP:HB2	1.52	0.73
1:K:128:ASN:HA	1:K:180:GLY:O	1.88	0.73
1:K:581:ASN:ND2	1:K:581:ASN:N	2.36	0.73
1:K:661:LYS:HG2	1:K:663:LEU:HD21	1.69	0.73
1:K:678:GLN:O	1:K:679:LEU:HD23	1.88	0.73
1:A:949:HIS:CD2	1:A:1020:TRP:HE1	2.04	0.73
1:G:66:PRO:HB3	1:G:187:MET:HE1	1.71	0.73
1:L:352:ARG:HB2	1:L:385:ASN:HB2	1.70	0.73
1:M:114:VAL:HG13	1:M:115:PRO:CD	2.18	0.73
1:O:782:ASP:HA	1:O:884:LEU:HD23	1.71	0.73
1:P:360:HIS:ND1	1:P:361:PRO:HD2	2.04	0.73
1:P:919:ASP:O	1:P:920:LEU:HD23	1.89	0.73
1:A:7:LEU:CD1	1:A:74:LEU:HD11	2.18	0.73
1:B:708:TRP:CE3	1:B:709:SER:HB3	2.24	0.73
1:E:14:ARG:NH1	1:E:16:TRP:HZ2	1.87	0.73
1:H:316:HIS:CA	1:H:323:ILE:HD13	2.19	0.73
1:K:38:ASN:ND2	1:K:41:GLU:HG3	1.99	0.73
1:K:205:MET:HE1	1:K:364:GLY:CA	2.19	0.73
1:M:38:ASN:ND2	1:M:41:GLU:HG3	2.01	0.73
1:M:59:ARG:NH2	1:M:81:ALA:HB3	2.03	0.73
1:M:386:ALA:HB1	1:M:408:TYR:O	1.88	0.73
1:A:742:THR:HG22	1:A:743:SER:H	1.54	0.72
1:C:362:LEU:CD2	1:C:576:ILE:HD12	2.19	0.72
1:E:533:LEU:HD12	1:E:534:ILE:N	2.04	0.72
1:E:542:MET:HE3	1:E:601:PHE:HA	1.71	0.72
1:H:424:ASN:HD21	1:H:464:HIS:C	1.96	0.72
1:K:316:HIS:CA	1:K:323:ILE:HD12	2.18	0.72
1:L:127:PHE:HE1	1:L:184:LEU:HG	1.52	0.72
1:M:660:GLY:O	1:M:662:PRO:HD3	1.89	0.72
1:N:377:LEU:CD2	1:N:708:TRP:HA	2.18	0.72
1:N:777:LEU:HG	1:N:889:ALA:HB2	1.69	0.72
1:O:128:ASN:HD21	1:O:180:GLY:HA2	1.54	0.72
1:P:308:LEU:HD13	1:P:329:ASP:HB3	1.69	0.72
1:A:18:ASN:ND2	1:A:21:VAL:HG23	2.03	0.72
1:A:786:ARG:HD3	1:A:880:ALA:HB1	1.69	0.72
1:H:682:LEU:HB3	1:H:683:PRO:HD2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:894:ARG:HH12	1:H:919:ASP:C	1.96	0.72
1:N:370:GLN:O	1:N:371:THR:C	2.32	0.72
1:P:141:ILE:HG12	1:P:214:LEU:HD21	1.72	0.72
1:P:317:THR:HG23	1:P:323:ILE:HD11	1.70	0.72
1:P:362:LEU:CD2	1:P:576:ILE:HD12	2.18	0.72
1:D:336:ARG:HH21	1:D:338:GLU:CD	1.97	0.72
1:H:822:LEU:HD12	1:H:823:LEU:H	1.54	0.72
1:K:572:ASP:HB3	1:K:603:MET:HG2	1.70	0.72
1:L:873:ALA:O	1:L:876:THR:HG22	1.90	0.72
1:M:102:ASN:OD1	1:M:103:VAL:HG23	1.89	0.72
1:M:974:HIS:CE1	1:M:975:LEU:HD21	2.25	0.72
1:N:24:LEU:HB2	1:N:161:TYR:HB3	1.69	0.72
1:O:678:GLN:C	1:O:679:LEU:HD23	2.14	0.72
1:P:92:MET:HE1	1:P:575:LEU:HD22	1.70	0.72
1:P:141:ILE:HD13	1:P:142:ILE:N	2.04	0.72
1:P:705:ALA:HA	3:P:1254:HOH:O	1.87	0.72
1:A:989:PHE:CE2	1:A:1014:TYR:HB3	2.25	0.72
1:B:316:HIS:HA	1:B:323:ILE:HD13	1.72	0.72
1:D:622:HIS:O	1:D:625:GLN:HG2	1.89	0.72
1:F:878:HIS:CD2	1:F:1010:SER:HB3	2.24	0.72
1:G:202:MET:HE1	1:G:392:TYR:CE2	2.24	0.72
1:G:395:HIS:CG	1:G:396:PRO:HD2	2.24	0.72
1:L:6:SER:O	1:L:7:LEU:C	2.31	0.72
1:M:38:ASN:ND2	1:M:41:GLU:H	1.86	0.72
1:M:281:GLU:HG3	1:P:515:VAL:HG21	1.71	0.72
1:O:91:GLN:HB3	1:O:98:PRO:HD3	1.72	0.72
1:O:432:TRP:O	1:O:436:MET:HG3	1.88	0.72
1:P:203:TRP:CE2	1:P:575:LEU:HD11	2.24	0.72
1:D:774:LYS:C	1:D:775:GLN:HE21	1.97	0.72
1:E:37:ARG:NH2	1:E:218:PRO:HD3	2.03	0.72
1:K:36:TRP:CE2	1:K:42:ALA:HA	2.24	0.72
1:K:51:LEU:HD12	1:K:52:ARG:H	1.52	0.72
1:N:360:HIS:ND1	1:N:363:HIS:N	2.33	0.72
1:O:653:HIS:CD2	1:O:667:GLU:HG2	2.24	0.72
1:B:701:VAL:HG22	1:B:714:ILE:HD13	1.71	0.72
1:C:474:TRP:O	1:C:478:VAL:HG23	1.88	0.72
1:D:529:GLU:HG2	3:D:1274:HOH:O	1.87	0.72
1:D:708:TRP:CE3	1:D:709:SER:HB3	2.25	0.72
1:H:608:PHE:HA	3:H:1289:HOH:O	1.87	0.72
1:I:159:VAL:HG22	1:I:176:PHE:CE2	2.25	0.72
1:J:166:ARG:CG	1:J:392:TYR:HB2	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:251:ARG:HB3	1:L:253:TYR:CE1	2.23	0.72
1:M:291:LEU:N	1:M:291:LEU:HD12	2.04	0.72
1:P:635:THR:CG2	1:P:681:GLU:HG2	2.20	0.72
1:P:796:SER:OG	1:P:801:ILE:HA	1.89	0.72
1:E:126:THR:HA	1:E:182:ASN:O	1.89	0.72
1:E:190:ARG:HD3	1:E:191:TRP:CH2	2.25	0.72
1:E:577:LYS:O	1:E:584:PRO:HA	1.90	0.72
1:G:995:GLY:H	1:G:1002:SER:HB2	1.53	0.72
1:K:217:LYS:HG2	1:K:324:GLU:OE2	1.90	0.72
1:O:663:LEU:N	1:O:663:LEU:HD23	2.04	0.72
1:P:777:LEU:HG	1:P:889:ALA:HB2	1.72	0.72
1:D:433:LEU:O	1:D:433:LEU:HD12	1.90	0.72
1:D:856:TYR:CD2	1:D:864:MET:HE2	2.23	0.72
1:E:279:ILE:HD11	1:H:424:ASN:HB2	1.72	0.72
1:H:18:ASN:ND2	1:H:21:VAL:HG23	2.05	0.72
1:L:529:GLU:HG2	3:L:1266:HOH:O	1.89	0.72
1:M:780:LEU:HB3	3:M:1255:HOH:O	1.90	0.72
1:N:383:ASN:ND2	1:N:625:GLN:HA	2.04	0.72
1:O:509:ASP:O	1:O:511:PRO:HD3	1.90	0.72
1:P:400:THR:HG22	1:P:404:ARG:CD	2.19	0.72
1:B:377:LEU:CD2	1:B:708:TRP:HA	2.20	0.72
1:F:86:VAL:HG13	1:F:87:PRO:HA	1.72	0.72
1:G:23:GLN:HB3	1:G:26:ARG:NH2	2.05	0.72
1:G:570:TRP:CD1	1:G:571:VAL:HG22	2.24	0.72
1:H:217:LYS:HE2	1:H:324:GLU:OE2	1.90	0.72
1:I:66:PRO:HB3	1:I:187:MET:CE	2.20	0.72
1:I:217:LYS:HG2	1:I:324:GLU:OE2	1.90	0.72
1:L:7:LEU:CD1	1:L:74:LEU:HD11	2.18	0.72
1:L:928:PRO:HB2	1:L:973:ARG:HH11	1.54	0.72
1:M:38:ASN:ND2	1:M:41:GLU:N	2.37	0.72
1:M:474:TRP:O	1:M:478:VAL:HG23	1.89	0.72
1:O:943:GLU:HB2	1:O:952:ARG:HG2	1.71	0.72
1:P:354:VAL:HG22	1:P:355:ASN:O	1.90	0.72
1:B:356:ARG:HD2	1:B:379:MET:HE1	1.72	0.72
1:G:856:TYR:HD2	1:G:864:MET:HE2	1.53	0.72
1:H:822:LEU:HD12	1:H:824:GLN:H	1.53	0.72
1:K:7:LEU:CD1	1:K:74:LEU:HD21	2.19	0.72
1:K:685:LEU:HB3	1:K:686:PRO:HD2	1.71	0.72
1:L:782:ASP:HA	1:L:884:LEU:HD23	1.70	0.72
1:M:78:LEU:HD23	1:M:78:LEU:N	2.03	0.72
1:M:352:ARG:H	1:M:385:ASN:HB2	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:368:ASP:OD1	1:N:370:GLN:HB2	1.90	0.72
1:O:353:GLY:O	1:O:566:PHE:HA	1.88	0.72
1:P:658:LEU:O	1:P:661:LYS:HD3	1.89	0.72
1:A:316:HIS:HA	1:A:323:ILE:HD12	1.70	0.71
1:E:949:HIS:CD2	1:E:1020:TRP:HE1	2.08	0.71
1:F:658:LEU:HD12	1:F:659:ASP:N	2.05	0.71
1:G:24:LEU:HB2	1:G:161:TYR:HB3	1.71	0.71
1:G:1022:GLN:O	1:G:1023:LYS:HG3	1.90	0.71
1:I:210:ARG:HH11	1:I:395:HIS:HB2	1.55	0.71
1:J:662:PRO:O	1:J:663:LEU:HD23	1.90	0.71
1:K:844:HIS:CE1	1:K:845:GLN:HG3	2.25	0.71
1:M:91:GLN:HG3	1:M:96:ASP:OD1	1.89	0.71
1:N:145:GLY:HA3	1:N:210:ARG:HB2	1.72	0.71
1:O:60:PHE:HB3	1:O:84:VAL:HG21	1.72	0.71
1:O:377:LEU:HD22	1:O:708:TRP:CA	2.19	0.71
1:P:354:VAL:HG21	1:P:570:TRP:HB2	1.70	0.71
1:P:395:HIS:CE1	1:P:397:LEU:HB2	2.25	0.71
1:A:360:HIS:ND1	1:A:361:PRO:HD2	2.05	0.71
1:B:114:VAL:HG13	1:B:191:TRP:HB2	1.70	0.71
1:C:542:MET:HE3	1:C:601:PHE:HA	1.72	0.71
1:E:1022:GLN:O	1:E:1023:LYS:HG2	1.90	0.71
1:L:23:GLN:O	1:L:24:LEU:HD13	1.90	0.71
1:M:38:ASN:HD22	1:M:41:GLU:CG	2.00	0.71
1:N:77:ASP:O	1:N:78:LEU:HD23	1.89	0.71
1:P:57:GLU:HA	1:P:84:VAL:O	1.90	0.71
1:P:400:THR:O	1:P:404:ARG:HD2	1.90	0.71
1:A:202:MET:HE3	1:A:357:HIS:CD2	2.24	0.71
1:A:928:PRO:HB2	1:A:973:ARG:NH1	2.06	0.71
1:B:114:VAL:HG13	1:B:115:PRO:HD2	1.71	0.71
1:B:768:MET:HG2	1:B:775:GLN:HB2	1.73	0.71
1:F:660:GLY:O	1:F:662:PRO:HD3	1.89	0.71
1:J:128:ASN:HA	1:J:180:GLY:O	1.90	0.71
1:K:946:TYR:O	1:K:949:HIS:HB2	1.90	0.71
1:O:360:HIS:CE1	1:O:362:LEU:HB2	2.26	0.71
1:O:573:GLN:HB2	1:O:602:CYS:O	1.88	0.71
1:P:115:PRO:HG2	1:P:191:TRP:CD1	2.25	0.71
1:B:597:ASN:HD22	1:B:599:ARG:H	1.38	0.71
1:C:372:MET:HE1	1:C:395:HIS:HB3	1.72	0.71
1:E:10:VAL:HG21	1:E:153:TRP:HZ2	1.53	0.71
1:E:88:SER:HA	1:E:366:VAL:HG21	1.73	0.71
1:E:261:TRP:CZ3	1:E:266:GLN:HB2	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:46:ARG:HB3	1:L:47:PRO:HD2	1.72	0.71
1:L:592:PHE:HB2	1:L:594:ASP:OD2	1.90	0.71
1:M:125:LEU:HD12	1:M:126:THR:N	2.06	0.71
1:N:595:THR:CG2	1:N:596:PRO:HA	2.20	0.71
1:N:668:VAL:HG11	1:N:680:ILE:HD12	1.73	0.71
1:O:78:LEU:HD22	1:O:79:PRO:HD3	1.72	0.71
1:O:261:TRP:CZ3	1:O:266:GLN:HB2	2.26	0.71
1:O:382:ASN:OD1	1:O:617:LEU:HG	1.91	0.71
1:P:7:LEU:HD13	1:P:74:LEU:HD11	1.71	0.71
1:P:38:ASN:HD22	1:P:41:GLU:HG3	1.55	0.71
1:P:456:TRP:CE2	1:P:482:ARG:HD2	2.24	0.71
1:A:597:ASN:HD22	1:A:599:ARG:H	1.35	0.71
1:A:1004:SER:O	1:A:1005:ALA:C	2.34	0.71
1:C:66:PRO:O	1:C:69:VAL:HG23	1.89	0.71
1:F:856:TYR:HB3	1:F:864:MET:CE	2.20	0.71
1:H:114:VAL:HG13	1:H:115:PRO:CD	2.20	0.71
1:K:246:MET:HG2	1:K:274:PHE:CE2	2.26	0.71
1:K:823:LEU:HB2	1:K:839:ALA:O	1.90	0.71
1:K:1011:ALA:HB3	1:K:1014:TYR:CZ	2.25	0.71
1:L:315:LEU:O	1:L:323:ILE:HB	1.90	0.71
1:L:734:SER:OG	1:L:860:GLY:HA3	1.91	0.71
1:M:284:GLY:CA	1:P:422:PRO:HG3	2.20	0.71
1:P:454:ILE:O	1:P:455:ILE:HG12	1.89	0.71
1:P:788:PRO:HB3	1:P:807:VAL:HG23	1.71	0.71
1:P:810:TRP:O	1:P:811:LYS:C	2.33	0.71
1:P:878:HIS:CD2	1:P:1010:SER:HB3	2.25	0.71
1:P:906:TYR:O	1:P:910:LEU:HD23	1.90	0.71
1:C:102:ASN:ND2	1:C:201:ASP:HB2	2.05	0.71
1:H:7:LEU:CD1	1:H:74:LEU:HD11	2.21	0.71
1:J:86:VAL:HG13	1:J:87:PRO:HA	1.71	0.71
1:J:599:ARG:HD2	1:J:600:GLN:OE1	1.91	0.71
1:J:691:ALA:HB1	1:J:725:ASN:O	1.89	0.71
1:K:142:ILE:HG12	1:K:170:GLU:HG2	1.72	0.71
1:K:291:LEU:HD12	1:K:291:LEU:N	2.06	0.71
1:L:395:HIS:CG	1:L:396:PRO:HD2	2.25	0.71
1:L:595:THR:CG2	1:L:596:PRO:HA	2.21	0.71
1:P:970:THR:HG21	1:P:976:LEU:CD2	2.21	0.71
1:A:427:THR:CA	1:A:436:MET:HE1	2.14	0.71
1:B:77:ASP:C	1:B:78:LEU:HD23	2.16	0.71
1:E:99:ILE:HD12	1:E:99:ILE:N	2.06	0.71
1:H:745:MET:HE2	1:H:761:GLN:HE21	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:68:ALA:O	1:I:70:PRO:HD3	1.89	0.71
1:I:292:ARG:C	1:I:293:LEU:HD23	2.15	0.71
1:I:654:TRP:CE2	1:I:666:GLY:HA3	2.26	0.71
1:K:43:ARG:O	1:K:310:ARG:HD3	1.90	0.71
1:L:436:MET:HE3	1:L:467:ASN:HD22	1.55	0.71
1:M:734:SER:CB	1:M:860:GLY:HA3	2.21	0.71
1:N:857:ARG:HG2	1:N:857:ARG:HH11	1.55	0.71
1:O:651:LEU:HD13	1:O:669:PRO:HA	1.71	0.71
1:P:34:ALA:O	1:P:215:LEU:HD11	1.91	0.71
1:P:423:MET:HE1	1:P:461:GLU:CB	2.18	0.71
1:A:652:LEU:HD22	1:A:680:ILE:CD1	2.21	0.71
1:B:822:LEU:HD12	1:B:823:LEU:N	2.06	0.71
1:B:824:GLN:O	1:B:838:THR:HA	1.91	0.71
1:C:949:HIS:CD2	1:C:1020:TRP:HE1	2.04	0.71
1:F:417:THR:OG1	1:F:462:SER:HB3	1.90	0.71
1:G:130:ASP:O	1:G:133:TRP:HB2	1.91	0.71
1:G:656:VAL:HG21	1:G:685:LEU:HD22	1.73	0.71
1:J:622:HIS:O	1:J:625:GLN:HG2	1.90	0.71
1:K:949:HIS:HD2	1:K:1020:TRP:NE1	1.88	0.71
1:L:92:MET:HE2	1:L:364:GLY:N	2.06	0.71
1:M:324:GLU:HG2	1:M:325:ALA:H	1.56	0.71
1:O:668:VAL:HG11	1:O:680:ILE:CG2	2.21	0.71
1:P:18:ASN:ND2	1:P:21:VAL:HG23	2.05	0.71
1:P:360:HIS:ND1	1:P:362:LEU:HB2	2.05	0.71
1:C:375:ASP:O	1:C:379:MET:HG3	1.91	0.71
1:E:164:ASP:HA	1:E:439:ARG:HH12	1.55	0.71
1:F:595:THR:CG2	1:F:596:PRO:HA	2.21	0.71
1:J:499:ILE:HB	1:J:533:LEU:HD22	1.73	0.71
1:J:579:ASP:CG	1:J:583:ASN:HB2	2.15	0.71
1:M:440:VAL:HG11	1:M:475:ILE:HD11	1.73	0.71
1:M:487:GLU:HG2	1:M:491:ALA:CB	2.20	0.71
1:M:902:PRO:HD3	1:M:918:TRP:CZ3	2.26	0.71
1:N:14:ARG:HG2	1:N:14:ARG:NH1	2.05	0.71
1:O:100:TYR:HE1	1:O:598:ASP:HB2	1.55	0.71
1:B:128:ASN:ND2	1:B:180:GLY:HA2	2.04	0.71
1:C:467:ASN:O	1:C:471:LEU:HD12	1.91	0.71
1:G:573:GLN:HB2	1:G:602:CYS:O	1.91	0.71
1:H:492:ASP:HB3	1:H:499:ILE:HG23	1.73	0.71
1:M:173:LEU:HB3	1:M:177:LEU:CD2	2.21	0.71
1:M:397:LEU:HD12	1:M:397:LEU:O	1.90	0.71
1:O:141:ILE:HG12	1:O:143:PHE:CE1	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:653:HIS:CD2	1:B:667:GLU:HG2	2.24	0.70
1:E:592:PHE:HB2	1:E:594:ASP:OD1	1.90	0.70
1:G:316:HIS:HA	1:G:323:ILE:CD1	2.21	0.70
1:H:653:HIS:NE2	1:H:667:GLU:OE2	2.24	0.70
1:H:902:PRO:HD3	1:H:918:TRP:CH2	2.26	0.70
1:J:78:LEU:N	1:J:78:LEU:HD23	2.05	0.70
1:J:196:TYR:O	1:J:417:THR:HG22	1.91	0.70
1:J:801:ILE:O	1:J:803:PRO:HD3	1.91	0.70
1:K:460:ASN:O	1:K:461:GLU:C	2.32	0.70
1:L:949:HIS:HD2	1:L:1020:TRP:NE1	1.89	0.70
1:N:822:LEU:HD12	1:N:823:LEU:H	1.56	0.70
1:P:100:TYR:HB2	1:P:203:TRP:CZ3	2.25	0.70
1:P:253:TYR:HA	1:P:255:ARG:HH12	1.56	0.70
1:P:256:VAL:C	1:P:271:THR:HG23	2.15	0.70
1:P:896:ASN:O	1:P:944:LEU:HD12	1.91	0.70
1:A:27:LEU:HD12	1:A:140:ARG:NH1	2.06	0.70
1:B:441:THR:HG22	1:B:474:TRP:CZ2	2.26	0.70
1:C:3:ILE:O	1:C:3:ILE:HG13	1.90	0.70
1:C:597:ASN:HD22	1:C:599:ARG:H	1.37	0.70
1:D:114:VAL:HG13	1:D:115:PRO:HD2	1.71	0.70
1:D:360:HIS:ND1	1:D:361:PRO:HD2	2.04	0.70
1:D:579:ASP:OD2	1:D:583:ASN:HB2	1.89	0.70
1:F:786:ARG:HH11	1:F:990:HIS:CE1	2.09	0.70
1:H:315:LEU:O	1:H:323:ILE:HB	1.90	0.70
1:J:73:TRP:CE2	1:J:122:CYS:HB3	2.26	0.70
1:K:353:GLY:O	1:K:566:PHE:HA	1.90	0.70
1:N:194:GLY:O	1:N:198:GLU:HG3	1.91	0.70
1:C:427:THR:CA	1:C:436:MET:HE1	2.08	0.70
1:H:258:VAL:O	1:H:269:SER:HA	1.92	0.70
1:K:125:LEU:HD12	1:K:126:THR:N	2.06	0.70
1:L:14:ARG:NH1	1:L:16:TRP:HZ2	1.88	0.70
1:L:254:LEU:O	1:L:255:ARG:HD3	1.91	0.70
1:M:544:ASN:HB2	1:M:929:TYR:CE2	2.25	0.70
1:M:650:GLU:HB3	1:M:670:LEU:HD12	1.73	0.70
1:M:906:TYR:HB3	1:M:907:PRO:HD2	1.71	0.70
1:N:266:GLN:NE2	1:N:269:SER:HB2	2.06	0.70
1:N:392:TYR:CB	1:N:414:ASN:HB2	2.21	0.70
1:N:786:ARG:NH2	1:N:991:MET:HE2	2.05	0.70
1:O:890:GLN:HG3	1:O:891:VAL:N	2.06	0.70
1:P:260:LEU:O	1:P:267:VAL:HG23	1.90	0.70
1:P:369:GLU:O	1:P:373:VAL:HG23	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:778:THR:CG2	1:P:779:PRO:HD2	2.21	0.70
1:A:291:LEU:HD12	1:A:291:LEU:N	2.06	0.70
1:A:610:ASP:OD1	1:A:612:THR:HG23	1.92	0.70
1:A:833:ALA:HB1	1:A:858:ILE:O	1.91	0.70
1:A:894:ARG:HH12	1:A:920:LEU:HA	1.57	0.70
1:A:1018:LEU:HD22	1:A:1019:VAL:N	2.06	0.70
1:F:202:MET:HE1	1:F:392:TYR:CE2	2.27	0.70
1:F:360:HIS:CE1	1:F:362:LEU:HB2	2.23	0.70
1:H:949:HIS:HD2	1:H:1020:TRP:NE1	1.87	0.70
1:K:746:ASP:HA	1:K:760:ARG:CG	2.19	0.70
1:L:638:VAL:O	1:L:677:LYS:HA	1.91	0.70
1:L:759:ASN:OD1	1:L:761:GLN:N	2.25	0.70
1:L:949:HIS:CD2	1:L:1020:TRP:HE1	2.08	0.70
1:O:653:HIS:HD2	1:O:667:GLU:HG2	1.54	0.70
1:P:37:ARG:NH2	1:P:218:PRO:HD3	2.07	0.70
1:D:14:ARG:HG2	1:D:14:ARG:NH1	2.03	0.70
1:D:920:LEU:HB3	1:D:921:PRO:HD2	1.73	0.70
1:E:23:GLN:CB	1:E:26:ARG:HH21	1.99	0.70
1:E:570:TRP:O	1:E:607:VAL:HG22	1.91	0.70
1:G:746:ASP:O	1:G:760:ARG:HD2	1.92	0.70
1:H:433:LEU:HD12	1:H:433:LEU:O	1.92	0.70
1:L:36:TRP:CD2	1:L:42:ALA:HA	2.25	0.70
1:L:322:LEU:HD23	1:L:323:ILE:N	2.06	0.70
1:L:881:ARG:HD3	1:L:987:ASP:OD2	1.91	0.70
1:M:69:VAL:HG13	1:M:70:PRO:HD2	1.73	0.70
1:N:189:LEU:HD23	1:N:189:LEU:N	2.06	0.70
1:N:416:GLU:HG3	1:N:460:ASN:O	1.91	0.70
1:P:653:HIS:CD2	1:P:667:GLU:HG3	2.26	0.70
1:B:850:PHE:HD1	1:B:872:VAL:HG13	1.56	0.70
1:D:810:TRP:CH2	1:D:991:MET:HE2	2.26	0.70
1:E:66:PRO:HD2	1:E:67:GLU:CG	2.21	0.70
1:E:599:ARG:HD2	1:E:600:GLN:OE1	1.92	0.70
1:N:599:ARG:HD2	1:N:600:GLN:OE1	1.90	0.70
1:O:166:ARG:HB2	1:O:414:ASN:HD22	1.57	0.70
1:P:625:GLN:NE2	1:P:716:ALA:HB1	2.06	0.70
1:A:814:GLY:O	1:A:815:HIS:C	2.31	0.70
1:C:685:LEU:HD22	1:C:686:PRO:HD2	1.74	0.70
1:G:386:ALA:HB2	1:G:408:TYR:HB2	1.74	0.70
1:H:316:HIS:HA	1:H:323:ILE:CD1	2.21	0.70
1:H:949:HIS:CD2	1:H:1020:TRP:HE1	2.03	0.70
1:J:942:ARG:HA	1:J:953:GLY:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:579:ASP:O	1:K:580:GLU:C	2.33	0.70
1:L:906:TYR:O	1:L:910:LEU:HD23	1.91	0.70
1:N:438:GLU:O	1:N:442:ARG:HG3	1.92	0.70
1:O:474:TRP:CZ2	1:O:478:VAL:HG21	2.27	0.70
1:P:128:ASN:HA	1:P:180:GLY:O	1.91	0.70
1:P:423:MET:CE	1:P:461:GLU:HB3	2.20	0.70
1:P:822:LEU:CD1	1:P:824:GLN:H	2.05	0.70
1:A:166:ARG:HB2	1:A:414:ASN:ND2	2.05	0.70
1:B:685:LEU:HB3	1:B:686:PRO:HD2	1.74	0.70
1:D:92:MET:HE1	1:D:575:LEU:HD22	1.72	0.70
1:D:197:LEU:CD1	1:D:439:ARG:HE	2.05	0.70
1:F:583:ASN:OD1	1:F:584:PRO:HD2	1.92	0.70
1:I:102:ASN:HD22	1:I:201:ASP:HB2	1.54	0.70
1:I:587:ALA:HB1	1:I:591:ASP:CB	2.21	0.70
1:K:14:ARG:HG2	1:K:14:ARG:NH1	2.03	0.70
1:L:870:VAL:HG12	1:L:871:GLU:H	1.56	0.70
1:M:128:ASN:HD21	1:M:180:GLY:HA2	1.53	0.70
1:N:355:ASN:HD22	1:N:355:ASN:N	1.90	0.70
1:O:663:LEU:CD1	1:O:688:PRO:HG3	2.20	0.70
1:P:102:ASN:HD22	1:P:201:ASP:HB2	1.55	0.70
1:P:444:VAL:O	1:P:448:ARG:HG2	1.90	0.70
1:B:777:LEU:HD11	1:B:889:ALA:HA	1.72	0.70
1:H:413:ALA:HA	1:H:443:MET:HE2	1.72	0.70
1:H:546:LEU:HD22	1:H:616:ALA:HB1	1.72	0.70
1:H:651:LEU:HD13	1:H:669:PRO:HA	1.74	0.70
1:H:805:ALA:O	1:H:809:ARG:HG3	1.92	0.70
1:K:651:LEU:HD12	1:K:652:LEU:H	1.55	0.70
1:N:23:GLN:O	1:N:24:LEU:HD13	1.92	0.70
1:N:944:LEU:HD12	1:N:945:ASN:H	1.57	0.70
1:O:100:TYR:O	1:O:597:ASN:HA	1.90	0.70
1:A:134:LEU:HD23	1:A:134:LEU:N	2.05	0.70
1:F:587:ALA:HB1	1:F:591:ASP:CB	2.22	0.70
1:H:66:PRO:HG2	1:H:67:GLU:OE2	1.91	0.70
1:L:894:ARG:NH2	1:L:921:PRO:HD3	2.07	0.70
1:L:948:PRO:HG2	1:L:949:HIS:ND1	2.07	0.70
1:M:400:THR:HG23	1:M:404:ARG:HD2	1.72	0.70
1:N:654:TRP:CE2	1:N:666:GLY:HA3	2.27	0.70
1:P:544:ASN:HB3	1:P:789:LEU:HD22	1.72	0.70
1:P:932:PRO:HG2	1:P:970:THR:O	1.92	0.70
1:A:433:LEU:HB3	1:A:434:PRO:HD3	1.73	0.69
1:B:595:THR:HG23	1:B:596:PRO:HA	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:436:MET:CE	1:C:467:ASN:HD22	2.04	0.69
1:F:789:LEU:O	1:F:793:ILE:HG13	1.92	0.69
1:G:100:TYR:CE1	1:G:602:CYS:HB3	2.26	0.69
1:K:937:LEU:C	1:K:938:ARG:HG2	2.15	0.69
1:L:970:THR:HG21	1:L:976:LEU:HD23	1.73	0.69
1:L:986:ILE:HG21	1:L:1018:LEU:HD11	1.74	0.69
1:M:5:ASP:OD2	1:M:157:ARG:HA	1.92	0.69
1:M:152:LEU:HD12	1:M:153:TRP:N	2.05	0.69
1:M:698:VAL:CG2	1:M:718:GLN:HB3	2.21	0.69
1:M:718:GLN:HG2	1:M:720:TRP:CZ2	2.27	0.69
1:P:102:ASN:HA	1:P:201:ASP:OD1	1.92	0.69
1:P:856:TYR:HD2	1:P:864:MET:HE2	1.54	0.69
1:A:11:LEU:N	1:A:11:LEU:HD23	2.06	0.69
1:D:18:ASN:ND2	1:D:21:VAL:HG23	2.08	0.69
1:E:158:TRP:CZ2	1:E:160:GLY:HA2	2.25	0.69
1:F:189:LEU:HD23	1:F:189:LEU:N	2.07	0.69
1:H:559:TYR:HB2	1:H:562:LEU:HD12	1.72	0.69
1:J:573:GLN:HB2	1:J:602:CYS:O	1.92	0.69
1:K:308:LEU:HD13	1:K:329:ASP:HB3	1.73	0.69
1:M:173:LEU:O	1:M:177:LEU:HG	1.91	0.69
1:M:487:GLU:CG	1:M:491:ALA:HB2	2.20	0.69
1:M:614:HIS:HB3	1:M:615:PRO:HD2	1.72	0.69
1:N:636:ILE:HB	1:N:680:ILE:HB	1.74	0.69
1:C:246:MET:HE2	1:C:287:ASP:HB3	1.72	0.69
1:C:377:LEU:HD22	1:C:708:TRP:HA	1.73	0.69
1:D:134:LEU:HD23	1:D:134:LEU:N	2.07	0.69
1:D:746:ASP:CA	1:D:760:ARG:HG3	2.21	0.69
1:G:635:THR:HG23	1:G:681:GLU:HG3	1.73	0.69
1:K:322:LEU:HD23	1:K:323:ILE:N	2.07	0.69
1:L:102:ASN:ND2	1:L:201:ASP:HB2	2.07	0.69
1:M:367:MET:HE1	1:M:371:THR:HB	1.74	0.69
1:M:572:ASP:HB3	1:M:603:MET:CB	2.22	0.69
1:P:79:PRO:HG2	1:P:80:GLU:HG3	1.73	0.69
1:B:232:ASN:HD21	1:B:237:ARG:N	1.89	0.69
1:B:925:MET:HE3	3:B:1276:HOH:O	1.92	0.69
1:E:1004:SER:N	3:E:1273:HOH:O	2.14	0.69
1:H:796:SER:OG	1:H:801:ILE:HA	1.92	0.69
1:K:65:ALA:HB1	1:K:67:GLU:HG3	1.75	0.69
1:L:531:ARG:HB3	1:L:532:PRO:HD2	1.73	0.69
1:M:654:TRP:NE1	1:M:666:GLY:HA3	2.07	0.69
1:N:529:GLU:OE1	1:N:531:ARG:HB2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:324:GLU:HG2	1:P:325:ALA:H	1.58	0.69
1:P:400:THR:O	1:P:403:ASP:HB2	1.92	0.69
1:P:777:LEU:HD12	1:P:887:GLN:HG2	1.73	0.69
1:B:279:ILE:HD11	1:C:424:ASN:HB2	1.75	0.69
1:D:200:GLN:HG3	1:D:416:GLU:HB3	1.74	0.69
1:D:572:ASP:CB	1:D:603:MET:HG2	2.15	0.69
1:D:579:ASP:CG	1:D:583:ASN:HB2	2.18	0.69
1:E:63:PHE:HB3	1:E:64:PRO:HD2	1.74	0.69
1:E:948:PRO:HG2	1:E:949:HIS:ND1	2.07	0.69
1:E:949:HIS:HD2	1:E:1020:TRP:NE1	1.89	0.69
1:G:693:GLN:HG2	1:G:721:ARG:HD2	1.75	0.69
1:I:43:ARG:O	1:I:310:ARG:HD3	1.93	0.69
1:I:419:GLY:HA2	1:L:282:ARG:HH11	1.58	0.69
1:K:166:ARG:CG	1:K:392:TYR:HB2	2.22	0.69
1:K:749:ILE:HD11	1:K:834:VAL:HG11	1.74	0.69
1:N:902:PRO:HD3	1:N:918:TRP:CH2	2.27	0.69
1:O:147:ASN:HB3	1:O:206:SER:HA	1.75	0.69
1:P:63:PHE:HB3	1:P:64:PRO:HD2	1.74	0.69
1:P:141:ILE:HG12	1:P:214:LEU:CD2	2.23	0.69
1:P:577:LYS:O	1:P:584:PRO:HA	1.92	0.69
1:B:438:GLU:O	1:B:442:ARG:HG3	1.92	0.69
1:B:833:ALA:HB1	1:B:858:ILE:O	1.92	0.69
1:E:427:THR:HG21	1:E:468:HIS:CE1	2.27	0.69
1:G:129:VAL:HG23	1:G:182:ASN:ND2	2.07	0.69
1:G:768:MET:HE2	1:G:1022:GLN:NE2	2.07	0.69
1:K:246:MET:HE3	1:K:246:MET:C	2.17	0.69
1:K:433:LEU:HD12	1:K:433:LEU:O	1.91	0.69
1:M:382:ASN:HD22	1:M:382:ASN:N	1.90	0.69
1:M:658:LEU:O	1:M:659:ASP:C	2.35	0.69
1:M:902:PRO:HD3	1:M:918:TRP:CH2	2.27	0.69
1:N:53:SER:O	1:N:54:LEU:HD23	1.93	0.69
1:O:293:LEU:N	1:O:293:LEU:HD23	2.08	0.69
1:P:14:ARG:NH1	1:P:16:TRP:HZ2	1.91	0.69
1:P:949:HIS:CD2	1:P:1020:TRP:HE1	2.10	0.69
1:C:254:LEU:O	1:C:255:ARG:HD3	1.93	0.69
1:C:932:PRO:HG2	1:C:970:THR:O	1.92	0.69
1:E:502:MET:HE2	1:E:537:GLU:OE1	1.93	0.69
1:F:587:ALA:HB1	1:F:591:ASP:HB2	1.75	0.69
1:G:227:VAL:CG1	1:G:240:LEU:HD11	2.22	0.69
1:G:505:ARG:HG2	1:G:996:ASP:OD2	1.93	0.69
1:H:129:VAL:HG21	1:H:177:LEU:CD1	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:261:TRP:CH2	1:H:266:GLN:HB2	2.27	0.69
1:H:777:LEU:CD1	1:H:889:ALA:HA	2.22	0.69
1:K:66:PRO:CG	1:K:67:GLU:HG2	2.22	0.69
1:K:102:ASN:HB2	1:K:201:ASP:OD1	1.92	0.69
1:K:738:PRO:HA	1:K:751:LEU:HD12	1.75	0.69
1:L:316:HIS:ND1	1:L:316:HIS:N	2.40	0.69
1:M:65:ALA:HB1	1:M:67:GLU:HG3	1.74	0.69
1:M:822:LEU:HD12	1:M:823:LEU:N	2.08	0.69
1:P:166:ARG:HG2	1:P:392:TYR:CB	2.22	0.69
1:P:542:MET:HG3	1:P:603:MET:O	1.92	0.69
1:B:367:MET:HB3	1:B:372:MET:HE3	1.74	0.69
1:B:373:VAL:O	1:B:377:LEU:HD12	1.92	0.69
1:C:100:TYR:CE2	1:C:602:CYS:HB3	2.28	0.69
1:C:189:LEU:N	1:C:189:LEU:HD23	2.07	0.69
1:E:10:VAL:O	1:E:13:ARG:HG3	1.93	0.69
1:E:78:LEU:HD23	1:E:78:LEU:N	2.08	0.69
1:E:438:GLU:OE1	1:E:442:ARG:HD2	1.93	0.69
1:F:36:TRP:CD2	1:F:42:ALA:HB2	2.27	0.69
1:F:420:MET:HE2	1:F:425:ARG:HB3	1.73	0.69
1:F:856:TYR:CD2	1:F:864:MET:HE2	2.27	0.69
1:G:202:MET:HE3	1:G:357:HIS:CD2	2.28	0.69
1:G:627:PHE:CZ	1:G:650:GLU:HG2	2.27	0.69
1:H:668:VAL:CG1	1:H:669:PRO:HD2	2.22	0.69
1:H:672:VAL:HG13	1:H:678:GLN:HB2	1.73	0.69
1:I:942:ARG:HH21	1:I:954:ASP:HB2	1.58	0.69
1:L:141:ILE:HD13	1:L:143:PHE:HE1	1.55	0.69
1:M:210:ARG:HH11	1:M:395:HIS:HB2	1.56	0.69
1:M:616:ALA:O	1:M:617:LEU:C	2.33	0.69
1:M:801:ILE:O	1:M:803:PRO:HD3	1.93	0.69
1:P:222:ILE:CD1	1:P:313:VAL:HG12	2.22	0.69
1:P:307:ASN:O	1:P:308:LEU:HD23	1.93	0.69
1:P:368:ASP:OD1	1:P:370:GLN:HB2	1.93	0.69
1:P:410:VAL:HG22	1:P:455:ILE:HB	1.74	0.69
1:P:765:LEU:HD12	1:P:766:SER:N	2.08	0.69
1:P:770:ILE:HD11	1:P:1022:GLN:HG2	1.74	0.69
1:B:353:GLY:O	1:B:566:PHE:HA	1.93	0.69
1:B:822:LEU:HD12	1:B:823:LEU:H	1.57	0.69
1:E:258:VAL:HG12	1:E:293:LEU:HD11	1.75	0.69
1:F:14:ARG:NH1	1:F:16:TRP:HZ2	1.90	0.69
1:F:857:ARG:HG2	1:F:857:ARG:NH1	2.08	0.69
1:I:90:TRP:HE3	1:I:123:TYR:HH	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:7:LEU:HD11	1:K:74:LEU:HD21	1.73	0.69
1:M:359:HIS:ND1	1:M:573:GLN:HG2	2.07	0.69
1:O:166:ARG:CG	1:O:392:TYR:HB2	2.23	0.69
1:P:994:GLY:CA	1:P:1003:VAL:HG22	2.23	0.69
1:A:53:SER:OG	1:A:55:ASN:HB2	1.92	0.69
1:B:102:ASN:ND2	1:B:201:ASP:HB2	2.08	0.69
1:B:260:LEU:O	1:B:267:VAL:HG23	1.93	0.69
1:B:540:HIS:CE1	1:B:999:TRP:HZ3	2.12	0.69
1:C:249:GLU:CD	1:C:251:ARG:HH22	2.00	0.69
1:E:34:ALA:HB3	1:E:36:TRP:CZ3	2.28	0.69
1:F:65:ALA:HB1	1:F:66:PRO:HD2	1.75	0.69
1:F:400:THR:CG2	1:F:404:ARG:HD2	2.23	0.69
1:G:236:SER:C	1:G:237:ARG:HG2	2.16	0.69
1:G:533:LEU:HD12	1:G:534:ILE:N	2.08	0.69
1:I:99:ILE:HG23	1:I:594:ASP:HB2	1.75	0.69
1:M:572:ASP:HB2	3:M:1276:HOH:O	1.92	0.69
1:N:38:ASN:O	1:N:39:SER:C	2.34	0.69
1:N:499:ILE:HG22	1:N:501:PRO:HD3	1.75	0.69
1:O:965:GLN:O	1:O:969:GLU:HG3	1.92	0.69
1:P:473:ARG:O	1:P:476:LYS:HB2	1.93	0.69
1:P:1013:ARG:HH11	1:P:1013:ARG:HG3	1.57	0.69
1:E:194:GLY:HA3	3:E:1239:HOH:O	1.93	0.68
1:F:3:ILE:O	1:F:9:VAL:HG21	1.93	0.68
1:F:78:LEU:HB3	1:F:80:GLU:HG3	1.74	0.68
1:J:742:THR:HG23	1:J:747:PHE:CD1	2.27	0.68
1:L:878:HIS:CD2	1:L:1010:SER:HB3	2.28	0.68
1:M:741:THR:HG22	1:M:742:THR:N	2.07	0.68
1:N:29:ALA:HB2	1:N:442:ARG:HB3	1.75	0.68
1:O:595:THR:HG23	1:O:596:PRO:HA	1.75	0.68
1:P:362:LEU:HD21	1:P:576:ILE:HD12	1.74	0.68
1:B:291:LEU:N	1:B:291:LEU:HD12	2.08	0.68
1:B:390:SER:HB2	1:B:391:HIS:CE1	2.28	0.68
1:C:227:VAL:CG1	1:C:240:LEU:HD11	2.23	0.68
1:D:73:TRP:CE2	1:D:122:CYS:HB3	2.27	0.68
1:E:571:VAL:CG1	1:E:607:VAL:HG23	2.22	0.68
1:E:660:GLY:O	1:E:662:PRO:HD3	1.93	0.68
1:E:701:VAL:O	1:E:703:PRO:HD3	1.93	0.68
1:G:578:TYR:HA	1:G:583:ASN:O	1.92	0.68
1:G:651:LEU:HD13	1:G:669:PRO:HA	1.75	0.68
1:H:73:TRP:CZ2	1:H:185:ALA:HB1	2.29	0.68
1:H:129:VAL:HG23	1:H:182:ASN:ND2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:774:LYS:C	1:K:775:GLN:HE21	2.01	0.68
1:L:102:ASN:HD22	1:L:201:ASP:CB	2.07	0.68
1:M:336:ARG:HH21	1:M:338:GLU:CD	2.01	0.68
1:N:138:GLN:HG3	1:N:172:ASP:OD2	1.94	0.68
1:N:578:TYR:HA	1:N:583:ASN:O	1.93	0.68
1:O:730:LEU:CD1	1:O:731:PRO:HD2	2.18	0.68
1:P:103:VAL:HG22	1:P:418:HIS:CG	2.27	0.68
1:P:736:ALA:O	1:P:737:ILE:HG22	1.94	0.68
1:A:653:HIS:CD2	1:A:667:GLU:HB3	2.28	0.68
1:B:663:LEU:N	1:B:663:LEU:HD23	2.09	0.68
1:B:696:LEU:HD12	1:B:697:THR:H	1.58	0.68
1:G:128:ASN:ND2	1:G:180:GLY:HA2	2.08	0.68
1:G:134:LEU:N	1:G:134:LEU:HD23	2.08	0.68
1:J:778:THR:HG23	1:J:779:PRO:HD2	1.74	0.68
1:K:622:HIS:O	1:K:625:GLN:HG2	1.93	0.68
1:M:444:VAL:HG21	1:M:474:TRP:HZ3	1.57	0.68
1:N:316:HIS:HA	1:N:323:ILE:CD1	2.24	0.68
1:O:360:HIS:HE1	1:O:362:LEU:HB2	1.57	0.68
1:P:7:LEU:HD13	1:P:74:LEU:CD1	2.22	0.68
1:P:1000:SER:HB2	1:P:1001:PRO:HD2	1.75	0.68
1:D:904:GLU:HG3	1:D:906:TYR:HE1	1.58	0.68
1:E:353:GLY:O	1:E:566:PHE:HA	1.93	0.68
1:E:438:GLU:O	1:E:442:ARG:HG3	1.93	0.68
1:F:36:TRP:CD1	1:F:41:GLU:HB3	2.27	0.68
1:H:456:TRP:NE1	1:H:482:ARG:HD2	2.08	0.68
1:H:786:ARG:HG2	1:H:880:ALA:HB1	1.75	0.68
1:H:881:ARG:HD3	1:H:987:ASP:OD2	1.93	0.68
1:I:904:GLU:HG2	1:I:909:ARG:HH22	1.58	0.68
1:K:635:THR:HG23	1:K:680:ILE:O	1.93	0.68
1:K:906:TYR:O	1:K:910:LEU:HD23	1.93	0.68
1:M:427:THR:CA	1:M:436:MET:HE1	2.21	0.68
1:M:948:PRO:CD	1:M:949:HIS:H	2.05	0.68
1:N:237:ARG:HH11	1:N:237:ARG:HG3	1.59	0.68
1:N:316:HIS:HA	1:N:323:ILE:HD13	1.74	0.68
1:P:822:LEU:HD12	1:P:824:GLN:H	1.57	0.68
1:P:902:PRO:HD3	1:P:918:TRP:CZ3	2.26	0.68
1:C:766:SER:HA	1:C:779:PRO:HB3	1.76	0.68
1:F:152:LEU:HD12	1:F:153:TRP:N	2.08	0.68
1:H:165:SER:C	1:H:166:ARG:HD2	2.19	0.68
1:I:786:ARG:HH11	1:I:990:HIS:HE1	1.40	0.68
1:I:937:LEU:C	1:I:938:ARG:HG2	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:961:ARG:HB3	1:I:978:ALA:HB1	1.75	0.68
1:J:7:LEU:O	1:J:11:LEU:HG	1.94	0.68
1:K:592:PHE:HB2	1:K:594:ASP:OD1	1.94	0.68
1:K:749:ILE:CD1	1:K:834:VAL:HG11	2.23	0.68
1:M:965:GLN:O	1:M:969:GLU:HG3	1.94	0.68
1:N:66:PRO:HB3	1:N:187:MET:CE	2.24	0.68
1:N:568:TRP:HE1	1:N:604:ASN:HD22	1.41	0.68
1:O:146:VAL:O	1:O:165:SER:HB3	1.93	0.68
1:O:202:MET:HE3	1:O:357:HIS:HD2	1.56	0.68
1:P:163:GLN:HE22	1:P:193:ASP:CG	2.01	0.68
1:A:960:SER:HA	3:A:1276:HOH:O	1.92	0.68
1:B:975:LEU:HD23	1:B:975:LEU:N	2.08	0.68
1:C:617:LEU:O	1:C:620:ALA:HB3	1.94	0.68
1:D:377:LEU:CD2	1:D:708:TRP:HA	2.24	0.68
1:H:542:MET:HE3	1:H:601:PHE:HA	1.76	0.68
1:H:645:ARG:NH1	1:H:646:HIS:O	2.27	0.68
1:I:118:ASN:O	1:I:119:PRO:C	2.35	0.68
1:J:469:ASP:HB3	1:K:473:ARG:HD2	1.76	0.68
1:K:747:PHE:CZ	1:K:760:ARG:HD3	2.27	0.68
1:L:372:MET:HG2	1:L:401:LEU:CD1	2.22	0.68
1:M:796:SER:OG	1:M:801:ILE:HA	1.93	0.68
1:N:44:THR:O	1:N:46:ARG:HG2	1.94	0.68
1:O:937:LEU:C	1:O:938:ARG:HG2	2.17	0.68
1:P:315:LEU:HG	1:P:323:ILE:HB	1.76	0.68
1:P:357:HIS:HE1	1:P:568:TRP:CH2	2.11	0.68
1:A:579:ASP:OD2	1:A:583:ASN:HB2	1.93	0.68
1:B:372:MET:HG2	1:B:398:TRP:HE3	1.59	0.68
1:C:377:LEU:O	1:C:381:GLN:HG3	1.94	0.68
1:F:338:GLU:O	3:F:1262:HOH:O	2.11	0.68
1:F:627:PHE:C	1:F:628:GLN:HG2	2.18	0.68
1:H:625:GLN:HB2	1:H:716:ALA:HB2	1.75	0.68
1:I:287:ASP:OD2	1:L:425:ARG:NH2	2.27	0.68
1:K:844:HIS:O	1:K:845:GLN:C	2.35	0.68
1:L:27:LEU:HD12	1:L:140:ARG:NH1	2.07	0.68
1:L:579:ASP:OD1	1:L:583:ASN:ND2	2.27	0.68
1:M:237:ARG:HG3	1:M:237:ARG:NH1	2.07	0.68
1:M:579:ASP:OD1	1:M:583:ASN:ND2	2.27	0.68
1:N:930:VAL:HA	1:N:973:ARG:HD3	1.74	0.68
1:P:427:THR:HG21	1:P:468:HIS:CE1	2.28	0.68
1:A:217:LYS:HG2	1:A:324:GLU:OE2	1.94	0.68
1:B:746:ASP:O	1:B:760:ARG:HD2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:651:LEU:HD13	1:C:669:PRO:HA	1.76	0.68
1:D:4:THR:HA	1:D:9:VAL:HG11	1.76	0.68
1:E:27:LEU:HD12	1:E:140:ARG:HH11	1.56	0.68
1:E:251:ARG:O	1:E:253:TYR:N	2.27	0.68
1:H:91:GLN:HG3	1:H:96:ASP:OD1	1.94	0.68
1:H:317:THR:HG23	1:H:323:ILE:HD11	1.74	0.68
1:H:925:MET:HB3	3:H:1275:HOH:O	1.94	0.68
1:J:742:THR:HG22	1:J:743:SER:H	1.57	0.68
1:M:441:THR:HG22	1:M:474:TRP:CZ2	2.29	0.68
1:M:598:ASP:O	1:M:601:PHE:HB2	1.94	0.68
1:P:570:TRP:HD1	1:P:571:VAL:HG23	1.57	0.68
1:P:668:VAL:HG13	1:P:669:PRO:CD	2.23	0.68
1:B:11:LEU:HD22	1:B:187:MET:HE1	1.76	0.68
1:B:236:SER:C	1:B:237:ARG:HG2	2.17	0.68
1:C:651:LEU:CD1	1:C:669:PRO:HA	2.24	0.68
1:C:768:MET:HE1	1:C:1022:GLN:NE2	2.08	0.68
1:E:300:LEU:N	1:E:300:LEU:HD23	2.08	0.68
1:F:836:ILE:HD13	1:F:836:ILE:N	2.07	0.68
1:G:100:TYR:CZ	1:G:602:CYS:HB3	2.29	0.68
1:G:1011:ALA:HB3	1:G:1014:TYR:CZ	2.29	0.68
1:I:43:ARG:NH2	1:I:264:GLU:HG2	2.08	0.68
1:I:746:ASP:HA	1:I:760:ARG:CG	2.17	0.68
1:K:651:LEU:CD1	1:K:669:PRO:HA	2.24	0.68
1:L:4:THR:HA	1:L:9:VAL:HG11	1.76	0.68
1:L:413:ALA:HB2	1:L:443:MET:CE	2.24	0.68
1:L:876:THR:O	1:L:877:PRO:C	2.34	0.68
1:L:965:GLN:O	1:L:966:GLN:C	2.37	0.68
1:M:358:GLU:HB3	1:M:367:MET:HG2	1.76	0.68
1:N:279:ILE:HD11	1:O:422:PRO:CB	2.23	0.68
1:O:18:ASN:HB3	1:O:21:VAL:HG23	1.75	0.68
1:O:362:LEU:HG	1:O:576:ILE:HD12	1.76	0.68
1:P:131:GLU:O	1:P:134:LEU:N	2.27	0.68
1:P:204:ARG:N	1:P:204:ARG:HD3	2.08	0.68
1:P:222:ILE:HD13	1:P:313:VAL:HG12	1.75	0.68
1:P:606:LEU:HD13	1:P:617:LEU:HD12	1.76	0.68
1:B:354:VAL:HG22	1:B:355:ASN:O	1.94	0.68
1:B:768:MET:HE1	1:B:1022:GLN:NE2	2.09	0.68
1:D:362:LEU:CD2	1:D:576:ILE:HD12	2.24	0.68
1:D:893:GLU:OE1	1:D:893:GLU:HA	1.94	0.68
1:F:202:MET:HE3	1:F:357:HIS:HD2	1.59	0.68
1:H:147:ASN:HA	1:H:165:SER:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:634:GLN:N	1:H:634:GLN:HE21	1.92	0.68
1:H:718:GLN:HG3	1:H:719:GLN:N	2.04	0.68
1:I:460:ASN:ND2	1:I:461:GLU:HG3	2.09	0.68
1:K:292:ARG:HG3	1:K:292:ARG:NH1	2.09	0.68
1:L:251:ARG:O	1:L:253:TYR:N	2.27	0.68
1:N:257:THR:HA	1:N:270:GLY:O	1.94	0.68
1:N:300:LEU:O	1:N:307:ASN:HB2	1.94	0.68
1:O:650:GLU:HB3	1:O:670:LEU:HB2	1.76	0.68
1:O:949:HIS:HD2	1:O:1022:GLN:HE21	1.41	0.68
1:P:262:GLN:HE22	1:P:299:LYS:HD3	1.58	0.68
1:P:416:GLU:OE2	1:P:418:HIS:HB2	1.94	0.68
1:P:433:LEU:HD13	1:P:467:ASN:HB3	1.74	0.68
1:P:571:VAL:HG11	1:P:611:ARG:NH1	2.09	0.68
1:E:53:SER:C	1:E:54:LEU:HD23	2.18	0.67
1:E:822:LEU:HD12	1:E:823:LEU:H	1.56	0.67
1:G:668:VAL:HG13	1:G:669:PRO:HD2	1.75	0.67
1:I:282:ARG:NH1	1:L:419:GLY:HA2	2.09	0.67
1:K:778:THR:HB	1:K:887:GLN:H	1.58	0.67
1:L:599:ARG:HD2	1:L:600:GLN:OE1	1.93	0.67
1:L:1020:TRP:HD1	1:L:1021:CYS:N	1.92	0.67
1:M:354:VAL:HG22	1:M:355:ASN:O	1.94	0.67
1:M:607:VAL:HG12	1:M:613:PRO:HA	1.75	0.67
1:O:635:THR:HG23	1:O:681:GLU:HA	1.74	0.67
1:P:804:ASN:N	1:P:804:ASN:ND2	2.42	0.67
1:P:881:ARG:HD3	1:P:987:ASP:OD1	1.94	0.67
1:A:3:ILE:O	1:A:3:ILE:HG13	1.94	0.67
1:A:7:LEU:HD13	1:A:74:LEU:HD11	1.76	0.67
1:A:281:GLU:N	1:A:281:GLU:OE1	2.27	0.67
1:A:300:LEU:HD23	1:A:300:LEU:N	2.09	0.67
1:B:114:VAL:CG1	1:B:191:TRP:HB2	2.23	0.67
1:B:652:LEU:HD12	1:B:699:ARG:O	1.95	0.67
1:B:850:PHE:CD1	1:B:872:VAL:HG13	2.29	0.67
1:D:362:LEU:HD21	1:D:576:ILE:HD12	1.76	0.67
1:D:750:GLU:HG3	1:D:755:ARG:HG2	1.76	0.67
1:E:189:LEU:N	1:E:189:LEU:HD23	2.09	0.67
1:E:249:GLU:HB3	1:E:251:ARG:NH1	2.10	0.67
1:F:78:LEU:HB3	1:F:79:PRO:HD2	1.76	0.67
1:F:367:MET:HB3	1:F:372:MET:HE2	1.76	0.67
1:G:251:ARG:O	1:G:253:TYR:N	2.27	0.67
1:G:275:GLY:HA2	1:G:285:TYR:O	1.93	0.67
1:G:651:LEU:HD12	1:G:652:LEU:N	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:57:GLU:HG2	1:H:83:THR:HG23	1.75	0.67
1:I:316:HIS:CA	1:I:323:ILE:HD13	2.15	0.67
1:K:486:TYR:CE1	1:K:488:GLY:HA3	2.28	0.67
1:L:148:SER:OG	1:L:192:SER:HB3	1.93	0.67
1:M:114:VAL:CG2	1:M:191:TRP:HB3	2.24	0.67
1:M:469:ASP:HB3	1:P:473:ARG:HD2	1.76	0.67
1:M:768:MET:HE1	1:M:1022:GLN:NE2	2.09	0.67
1:N:894:ARG:NH2	1:N:921:PRO:HD3	2.09	0.67
1:B:152:LEU:HD12	1:B:153:TRP:N	2.10	0.67
1:E:892:ALA:HB3	1:E:946:TYR:CE1	2.29	0.67
1:F:487:GLU:HB3	3:F:1220:HOH:O	1.94	0.67
1:I:157:ARG:O	1:I:159:VAL:HG23	1.94	0.67
1:I:427:THR:HG22	1:I:436:MET:CE	2.24	0.67
1:J:66:PRO:HB3	1:J:187:MET:HE3	1.76	0.67
1:M:139:THR:OG1	1:M:216:HIS:ND1	2.27	0.67
1:M:260:LEU:HD12	1:M:261:TRP:N	2.09	0.67
1:M:324:GLU:HG2	1:M:325:ALA:N	2.08	0.67
1:O:634:GLN:O	1:O:682:LEU:HD12	1.93	0.67
1:P:27:LEU:N	1:P:27:LEU:HD23	2.10	0.67
1:P:246:MET:HG2	1:P:274:PHE:CZ	2.29	0.67
1:P:570:TRP:CD1	1:P:571:VAL:HG23	2.29	0.67
1:A:960:SER:N	3:A:1253:HOH:O	2.28	0.67
1:B:974:HIS:C	1:B:975:LEU:HD23	2.19	0.67
1:C:581:ASN:HA	1:J:581:ASN:OD1	1.94	0.67
1:E:474:TRP:CE2	1:E:478:VAL:HG21	2.29	0.67
1:E:906:TYR:O	1:E:910:LEU:HD23	1.94	0.67
1:F:18:ASN:ND2	1:F:21:VAL:HG23	2.09	0.67
1:F:210:ARG:HH12	1:F:394:ASN:C	2.02	0.67
1:F:570:TRP:O	1:F:607:VAL:HG22	1.95	0.67
1:F:827:ALA:HA	1:F:836:ILE:HD12	1.77	0.67
1:H:69:VAL:HG13	1:H:70:PRO:HD2	1.76	0.67
1:H:577:LYS:O	1:H:584:PRO:HA	1.94	0.67
1:H:822:LEU:HD12	1:H:823:LEU:N	2.09	0.67
1:K:806:TRP:CE2	1:K:991:MET:HE1	2.30	0.67
1:M:7:LEU:HB2	1:M:71:GLU:OE2	1.94	0.67
1:M:422:PRO:HD3	1:P:284:GLY:O	1.94	0.67
1:M:816:TYR:HB2	3:M:1206:HOH:O	1.94	0.67
1:N:225:PHE:HA	1:N:243:GLU:O	1.94	0.67
1:P:383:ASN:ND2	1:P:625:GLN:HA	2.10	0.67
1:A:246:MET:HG2	1:A:274:PHE:CE1	2.29	0.67
1:A:440:VAL:CG1	1:A:475:ILE:HD11	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:651:LEU:CD1	1:B:669:PRO:HA	2.25	0.67
1:J:902:PRO:O	1:J:938:ARG:NH1	2.28	0.67
1:L:33:PHE:HB3	1:L:326:GLU:OE2	1.95	0.67
1:M:172:ASP:OD1	1:M:174:SER:HB2	1.93	0.67
1:M:928:PRO:O	1:M:929:TYR:C	2.35	0.67
1:P:240:LEU:HD12	1:P:241:GLU:H	1.60	0.67
1:P:398:TRP:HA	1:P:398:TRP:HE3	1.58	0.67
1:C:134:LEU:N	1:C:134:LEU:HD23	2.10	0.67
1:D:27:LEU:N	1:D:27:LEU:HD23	2.09	0.67
1:D:63:PHE:HB3	1:D:64:PRO:HD2	1.75	0.67
1:D:251:ARG:O	1:D:253:TYR:N	2.27	0.67
1:E:99:ILE:HD11	1:E:190:ARG:NH1	2.07	0.67
1:E:434:PRO:HB3	1:H:434:PRO:HB3	1.76	0.67
1:E:959:ILE:O	3:E:1281:HOH:O	2.12	0.67
1:I:276:GLY:N	1:I:285:TYR:O	2.26	0.67
1:L:400:THR:HG22	1:L:404:ARG:CD	2.24	0.67
1:L:814:GLY:O	1:L:815:HIS:C	2.37	0.67
1:M:224:ASP:OD1	1:M:225:PHE:N	2.27	0.67
1:N:217:LYS:NZ	1:N:326:GLU:OE2	2.28	0.67
1:O:17:GLU:OE1	1:O:113:PHE:HA	1.94	0.67
1:P:789:LEU:HD12	1:P:792:ASP:OD2	1.95	0.67
1:A:430:PRO:HG2	1:D:445:GLN:HE22	1.58	0.67
1:A:949:HIS:HD2	1:A:1020:TRP:NE1	1.92	0.67
1:D:718:GLN:HG3	1:D:719:GLN:N	2.09	0.67
1:E:291:LEU:HD12	1:E:291:LEU:N	2.09	0.67
1:G:658:LEU:O	1:G:659:ASP:C	2.38	0.67
1:H:251:ARG:O	1:H:253:TYR:N	2.28	0.67
1:I:849:LEU:N	1:I:849:LEU:HD23	2.09	0.67
1:K:5:ASP:OD2	1:K:157:ARG:HA	1.94	0.67
1:M:102:ASN:HD22	1:M:201:ASP:CG	2.03	0.67
1:M:1003:VAL:HA	3:M:1262:HOH:O	1.94	0.67
1:N:579:ASP:OD2	1:N:583:ASN:HB2	1.93	0.67
1:O:66:PRO:HB3	1:O:187:MET:CE	2.25	0.67
1:O:125:LEU:HG	1:O:126:THR:N	2.10	0.67
1:O:678:GLN:O	1:O:679:LEU:HD23	1.95	0.67
1:O:718:GLN:HG3	1:O:719:GLN:N	2.09	0.67
1:O:856:TYR:HD2	1:O:864:MET:HE2	1.56	0.67
1:B:78:LEU:HD23	1:B:78:LEU:N	2.08	0.67
1:D:701:VAL:HG22	1:D:714:ILE:HD13	1.76	0.67
1:E:300:LEU:O	1:E:307:ASN:HB2	1.94	0.67
1:E:369:GLU:O	1:E:373:VAL:HG23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:894:ARG:HH12	1:E:920:LEU:HA	1.59	0.67
1:J:70:PRO:HG2	1:J:78:LEU:HD11	1.76	0.67
1:K:740:LEU:HD12	1:K:741:THR:N	2.07	0.67
1:L:102:ASN:ND2	1:L:201:ASP:OD2	2.28	0.67
1:L:705:ALA:HA	3:L:1255:HOH:O	1.94	0.67
1:M:189:LEU:N	1:M:189:LEU:HD23	2.10	0.67
1:M:651:LEU:HD13	1:M:669:PRO:HA	1.75	0.67
1:M:849:LEU:N	1:M:849:LEU:HD23	2.10	0.67
1:N:786:ARG:HH11	1:N:990:HIS:HE1	1.43	0.67
1:N:822:LEU:HD11	1:N:824:GLN:O	1.94	0.67
1:O:789:LEU:O	1:O:793:ILE:HG13	1.95	0.67
1:O:906:TYR:HB3	1:O:907:PRO:HD2	1.76	0.67
1:P:536:CYS:O	1:P:566:PHE:HB2	1.94	0.67
1:P:1022:GLN:O	1:P:1023:LYS:HG3	1.95	0.67
1:E:210:ARG:NH1	1:E:395:HIS:N	2.43	0.67
1:E:894:ARG:HH12	1:E:920:LEU:CA	2.08	0.67
1:F:293:LEU:N	1:F:293:LEU:HD23	2.08	0.67
1:G:6:SER:O	1:G:7:LEU:C	2.37	0.67
1:G:167:LEU:HB3	1:G:168:PRO:HD2	1.77	0.67
1:G:229:THR:C	1:G:230:ARG:HG3	2.20	0.67
1:H:14:ARG:HG2	1:H:14:ARG:HH11	1.59	0.67
1:H:878:HIS:NE2	1:H:1010:SER:HB3	2.08	0.67
1:I:806:TRP:CE2	1:I:991:MET:HE1	2.30	0.67
1:K:663:LEU:HD23	1:K:663:LEU:N	2.08	0.67
1:K:750:GLU:HG3	1:K:755:ARG:HG2	1.76	0.67
1:K:858:ILE:HA	1:K:863:GLN:O	1.94	0.67
1:L:656:VAL:HG12	1:L:694:LEU:HD11	1.76	0.67
1:N:66:PRO:HB3	1:N:187:MET:HE3	1.76	0.67
1:N:383:ASN:HD22	1:N:625:GLN:HA	1.60	0.67
1:P:842:TRP:HB2	1:P:850:PHE:HD2	1.59	0.67
1:A:894:ARG:HB3	1:A:894:ARG:HH11	1.60	0.67
1:D:354:VAL:HG22	1:D:355:ASN:O	1.94	0.67
1:D:749:ILE:CD1	1:D:834:VAL:HG11	2.25	0.67
1:E:91:GLN:HG3	1:E:96:ASP:OD1	1.95	0.67
1:E:844:HIS:CE1	1:E:845:GLN:HG3	2.30	0.67
1:H:417:THR:HG23	1:H:462:SER:HB3	1.76	0.67
1:I:224:ASP:OD1	1:I:225:PHE:N	2.28	0.67
1:J:531:ARG:O	1:J:561:ARG:NH1	2.27	0.67
1:K:467:ASN:O	1:K:471:LEU:HD12	1.94	0.67
1:M:451:PRO:O	1:M:452:SER:C	2.37	0.67
1:M:577:LYS:NZ	1:M:591:ASP:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:599:ARG:HH21	1:M:797:GLU:HG3	1.60	0.67
1:N:279:ILE:HD11	1:O:422:PRO:HB2	1.77	0.67
1:O:23:GLN:O	1:O:24:LEU:HD13	1.95	0.67
1:P:824:GLN:O	1:P:838:THR:HA	1.95	0.67
1:B:7:LEU:N	1:B:71:GLU:OE2	2.28	0.66
1:B:133:TRP:C	1:B:134:LEU:HD23	2.20	0.66
1:B:390:SER:HA	1:B:391:HIS:ND1	2.10	0.66
1:C:869:ASP:OD1	1:C:1015:HIS:ND1	2.28	0.66
1:D:454:ILE:HG13	1:D:455:ILE:HG13	1.77	0.66
1:D:890:GLN:HE21	1:D:891:VAL:H	1.43	0.66
1:D:902:PRO:HD3	1:D:918:TRP:CH2	2.30	0.66
1:E:275:GLY:HA2	1:E:285:TYR:O	1.96	0.66
1:E:627:PHE:C	1:E:628:GLN:HG2	2.20	0.66
1:E:948:PRO:HG2	1:E:949:HIS:CE1	2.30	0.66
1:G:91:GLN:HB3	1:G:98:PRO:HD3	1.76	0.66
1:G:133:TRP:C	1:G:134:LEU:HD23	2.20	0.66
1:G:237:ARG:HD2	1:G:296:GLU:HG2	1.77	0.66
1:G:778:THR:OG1	1:G:887:GLN:HB3	1.95	0.66
1:G:894:ARG:HH12	1:G:920:LEU:HA	1.61	0.66
1:H:6:SER:OG	1:H:9:VAL:HG23	1.95	0.66
1:J:753:ASN:OD1	1:J:754:LYS:HG3	1.96	0.66
1:K:307:ASN:O	1:K:308:LEU:HD23	1.94	0.66
1:L:36:TRP:CD1	1:L:41:GLU:HB2	2.30	0.66
1:M:220:THR:HA	1:M:247:CYS:O	1.95	0.66
1:M:436:MET:O	1:M:439:ARG:HB2	1.96	0.66
1:M:448:ARG:HH22	1:M:478:VAL:HG12	1.60	0.66
1:P:35:SER:O	1:P:36:TRP:C	2.38	0.66
1:P:62:TRP:CH2	1:P:64:PRO:HA	2.30	0.66
1:P:631:LEU:HD11	1:P:633:GLY:O	1.95	0.66
1:P:878:HIS:HB3	1:P:1009:LEU:O	1.95	0.66
1:A:118:ASN:O	1:A:119:PRO:C	2.36	0.66
1:A:129:VAL:HG23	1:A:182:ASN:HD22	1.60	0.66
1:A:204:ARG:HD3	1:A:204:ARG:N	2.09	0.66
1:A:816:TYR:HB2	3:A:1207:HOH:O	1.93	0.66
1:A:937:LEU:C	1:A:938:ARG:HG2	2.20	0.66
1:B:1011:ALA:HB3	1:B:1014:TYR:CZ	2.30	0.66
1:C:246:MET:HE3	1:C:246:MET:O	1.94	0.66
1:E:27:LEU:N	1:E:27:LEU:HD23	2.10	0.66
1:E:129:VAL:HG23	1:E:182:ASN:HD22	1.58	0.66
1:E:796:SER:OG	1:E:801:ILE:HA	1.94	0.66
1:E:810:TRP:HH2	1:E:991:MET:HE2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:126:THR:OG1	1:G:183:ARG:HG3	1.95	0.66
1:G:436:MET:CE	1:G:467:ASN:HD22	2.07	0.66
1:G:540:HIS:HD2	1:G:568:TRP:HD1	1.40	0.66
1:H:14:ARG:NH1	1:H:16:TRP:HZ2	1.93	0.66
1:H:360:HIS:ND1	1:H:361:PRO:HD2	2.10	0.66
1:I:37:ARG:NH2	1:I:218:PRO:HD3	2.10	0.66
1:J:84:VAL:HG12	1:J:85:VAL:N	2.10	0.66
1:J:742:THR:HG23	1:J:747:PHE:CE1	2.30	0.66
1:K:148:SER:HB3	1:K:190:ARG:O	1.95	0.66
1:L:436:MET:HE3	1:L:467:ASN:ND2	2.10	0.66
1:L:764:PHE:O	1:L:766:SER:N	2.29	0.66
1:M:31:PRO:HG2	1:M:225:PHE:CE1	2.30	0.66
1:M:205:MET:CE	1:M:365:GLN:HG3	2.15	0.66
1:N:142:ILE:HG12	1:N:170:GLU:HG2	1.76	0.66
1:P:26:ARG:HD2	1:P:442:ARG:NH2	2.10	0.66
1:P:246:MET:HB3	1:P:274:PHE:CZ	2.30	0.66
1:A:131:GLU:HB2	1:A:135:GLN:NE2	2.11	0.66
1:C:433:LEU:HB3	1:C:434:PRO:HD3	1.75	0.66
1:E:559:TYR:HB2	1:E:562:LEU:HD12	1.76	0.66
1:I:360:HIS:ND1	1:I:363:HIS:N	2.35	0.66
1:I:502:MET:HE2	1:I:537:GLU:CD	2.20	0.66
1:J:5:ASP:OD2	1:J:157:ARG:HA	1.95	0.66
1:J:708:TRP:CZ3	1:J:709:SER:HB3	2.30	0.66
1:K:441:THR:HG22	1:K:474:TRP:CH2	2.31	0.66
1:K:747:PHE:CE2	1:K:760:ARG:HD3	2.30	0.66
1:L:262:GLN:HE22	1:L:299:LYS:HD2	1.58	0.66
1:L:660:GLY:O	1:L:662:PRO:HD3	1.94	0.66
1:M:148:SER:HB3	1:M:190:ARG:O	1.95	0.66
1:M:355:ASN:HD22	1:M:355:ASN:H	1.44	0.66
1:M:505:ARG:HG2	1:M:996:ASP:OD2	1.94	0.66
1:O:46:ARG:HB3	1:O:47:PRO:HD2	1.77	0.66
1:O:505:ARG:HG2	1:O:996:ASP:OD2	1.95	0.66
1:O:850:PHE:CD2	1:O:872:VAL:HG13	2.25	0.66
1:P:14:ARG:HG2	1:P:14:ARG:NH1	2.10	0.66
1:A:429:ASP:OD1	1:A:431:ARG:N	2.29	0.66
1:E:69:VAL:HG21	1:E:122:CYS:SG	2.35	0.66
1:E:100:TYR:O	1:E:597:ASN:HA	1.94	0.66
1:E:467:ASN:O	1:E:471:LEU:HD12	1.95	0.66
1:G:738:PRO:HA	1:G:751:LEU:HD13	1.76	0.66
1:I:285:TYR:HB3	1:I:288:ARG:HB2	1.78	0.66
1:I:679:LEU:HD23	1:I:679:LEU:N	2.04	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:975:LEU:N	1:J:975:LEU:HD23	2.08	0.66
1:M:131:GLU:O	1:M:134:LEU:N	2.28	0.66
1:M:147:ASN:HB2	1:M:209:PHE:HE2	1.59	0.66
3:M:1279:HOH:O	1:P:423:MET:HE3	1.95	0.66
1:N:702:GLN:O	1:N:712:GLY:N	2.28	0.66
1:P:89:ASN:HD22	1:P:206:SER:H	1.43	0.66
1:P:300:LEU:O	1:P:307:ASN:HB2	1.94	0.66
1:A:78:LEU:N	1:A:78:LEU:HD23	2.08	0.66
1:A:224:ASP:OD1	1:A:225:PHE:N	2.29	0.66
1:A:531:ARG:O	1:A:561:ARG:NH1	2.28	0.66
1:A:625:GLN:CD	1:A:716:ALA:HB1	2.21	0.66
1:B:774:LYS:C	1:B:775:GLN:HE21	2.03	0.66
1:C:100:TYR:HB2	1:C:203:TRP:CE3	2.31	0.66
1:E:11:LEU:N	1:E:11:LEU:HD23	2.10	0.66
1:E:41:GLU:O	1:E:42:ALA:C	2.38	0.66
1:G:869:ASP:OD1	1:G:1015:HIS:ND1	2.29	0.66
1:H:579:ASP:OD1	1:H:583:ASN:N	2.28	0.66
1:H:824:GLN:O	1:H:838:THR:HA	1.95	0.66
1:H:833:ALA:HB1	1:H:859:ASP:HA	1.77	0.66
1:I:287:ASP:CG	1:L:425:ARG:HH22	2.03	0.66
1:K:502:MET:O	1:K:517:LYS:NZ	2.29	0.66
1:K:907:PRO:HA	1:K:910:LEU:CD2	2.25	0.66
1:L:86:VAL:CG1	1:L:87:PRO:HA	2.23	0.66
1:L:210:ARG:HH11	1:L:395:HIS:HA	1.60	0.66
1:L:224:ASP:OD1	1:L:225:PHE:N	2.28	0.66
1:L:856:TYR:CD2	1:L:864:MET:HE2	2.29	0.66
1:M:54:LEU:HD23	1:M:54:LEU:N	2.10	0.66
1:M:974:HIS:C	1:M:975:LEU:HD23	2.19	0.66
1:N:237:ARG:HG3	1:N:237:ARG:NH1	2.08	0.66
1:O:131:GLU:O	1:O:134:LEU:N	2.29	0.66
1:O:722:LEU:N	1:O:722:LEU:HD23	2.08	0.66
1:P:740:LEU:HD12	1:P:741:THR:H	1.58	0.66
1:P:881:ARG:NH1	1:P:987:ASP:OD2	2.26	0.66
1:B:597:ASN:ND2	1:B:599:ARG:H	1.93	0.66
1:E:34:ALA:HA	1:E:51:LEU:HD22	1.77	0.66
1:G:307:ASN:O	1:G:308:LEU:HD23	1.95	0.66
1:H:737:ILE:HG13	1:H:737:ILE:O	1.94	0.66
1:I:86:VAL:CG1	1:I:87:PRO:HA	2.23	0.66
1:I:240:LEU:HD12	1:I:241:GLU:N	2.11	0.66
1:J:210:ARG:HH12	1:J:394:ASN:C	2.04	0.66
1:J:672:VAL:CG1	1:J:678:GLN:HB2	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:658:LEU:O	1:K:661:LYS:N	2.29	0.66
1:K:854:LYS:NZ	3:K:1214:HOH:O	2.29	0.66
1:K:937:LEU:HG	1:K:938:ARG:N	2.07	0.66
1:L:559:TYR:HB2	1:L:562:LEU:HD12	1.77	0.66
1:L:650:GLU:HB3	1:L:670:LEU:HB2	1.77	0.66
1:M:581:ASN:HB2	1:M:583:ASN:ND2	1.98	0.66
1:N:425:ARG:NH2	1:O:287:ASP:OD2	2.29	0.66
1:N:579:ASP:OD1	1:N:582:GLY:N	2.29	0.66
1:P:42:ALA:O	1:P:310:ARG:NH1	2.28	0.66
1:B:152:LEU:HD12	1:B:153:TRP:H	1.60	0.66
1:B:422:PRO:CB	1:C:279:ILE:HD11	2.26	0.66
1:C:166:ARG:HG2	1:C:392:TYR:CB	2.26	0.66
1:E:287:ASP:OD2	1:H:425:ARG:NH2	2.28	0.66
1:F:600:GLN:NE2	1:F:790:ASP:OD1	2.29	0.66
1:G:7:LEU:N	1:G:71:GLU:OE2	2.28	0.66
1:G:42:ALA:O	1:G:310:ARG:NH1	2.29	0.66
1:G:224:ASP:OD1	1:G:225:PHE:N	2.29	0.66
1:G:743:SER:O	1:G:760:ARG:NH1	2.29	0.66
1:H:965:GLN:O	1:H:969:GLU:HG3	1.96	0.66
1:K:750:GLU:HG2	1:K:755:ARG:HG2	1.78	0.66
1:L:59:ARG:HH21	1:L:81:ALA:C	2.03	0.66
1:M:424:ASN:HB3	1:P:285:TYR:OH	1.96	0.66
1:M:767:GLN:NE2	1:M:768:MET:N	2.44	0.66
1:M:844:HIS:O	1:M:845:GLN:C	2.38	0.66
1:O:60:PHE:HB3	1:O:84:VAL:CG2	2.26	0.66
1:P:261:TRP:CZ3	1:P:266:GLN:HB2	2.30	0.66
1:P:656:VAL:HB	1:P:664:ALA:CB	2.09	0.66
1:P:660:GLY:O	1:P:662:PRO:HD3	1.96	0.66
1:B:237:ARG:HD3	1:B:296:GLU:HG2	1.78	0.66
1:C:167:LEU:HB3	1:C:168:PRO:HD2	1.77	0.66
1:D:587:ALA:HB1	1:D:591:ASP:HB2	1.77	0.66
1:E:906:TYR:HB3	1:E:907:PRO:HD2	1.76	0.66
1:H:896:ASN:HB2	1:H:919:ASP:OD1	1.95	0.66
1:K:312:VAL:HG13	1:K:327:ALA:HB2	1.77	0.66
1:K:570:TRP:HD1	1:K:571:VAL:HG22	1.61	0.66
1:K:778:THR:HG23	1:K:779:PRO:HD2	1.76	0.66
1:N:224:ASP:OD1	1:N:225:PHE:N	2.29	0.66
1:P:651:LEU:HD12	1:P:652:LEU:H	1.59	0.66
1:P:881:ARG:HB2	1:P:987:ASP:OD1	1.96	0.66
1:C:881:ARG:NH1	1:C:987:ASP:OD2	2.29	0.66
1:E:574:SER:CB	3:E:1289:HOH:O	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:544:ASN:HB3	1:F:789:LEU:HD22	1.77	0.66
1:G:933:SER:O	1:G:935:ASN:ND2	2.29	0.66
1:I:353:GLY:O	1:I:566:PHE:HA	1.96	0.66
1:I:577:LYS:O	1:I:584:PRO:HA	1.96	0.66
1:J:604:ASN:ND2	3:J:1260:HOH:O	2.29	0.66
1:J:793:ILE:HA	1:J:807:VAL:HG12	1.78	0.66
1:K:645:ARG:NH1	1:K:646:HIS:O	2.28	0.66
1:K:801:ILE:O	1:K:803:PRO:HD3	1.95	0.66
1:K:954:ASP:OD2	1:L:1013:ARG:NH1	2.29	0.66
1:L:984:LEU:HD21	1:L:986:ILE:HD11	1.78	0.66
1:M:309:TYR:O	1:M:330:VAL:N	2.27	0.66
1:N:57:GLU:HB3	1:N:83:THR:HG23	1.77	0.66
1:P:205:MET:HE1	1:P:364:GLY:CA	2.26	0.66
1:P:833:ALA:HB1	1:P:858:ILE:O	1.96	0.66
1:P:878:HIS:HD2	1:P:1010:SER:HB3	1.60	0.66
1:B:246:MET:HE3	1:B:247:CYS:C	2.21	0.66
1:C:78:LEU:HD22	1:C:80:GLU:OE2	1.95	0.66
1:C:228:ALA:O	1:C:240:LEU:HD12	1.96	0.66
1:C:249:GLU:HB3	1:C:251:ARG:NH1	2.11	0.66
1:D:166:ARG:HG3	1:D:392:TYR:HB2	1.77	0.66
1:D:439:ARG:HG2	1:D:439:ARG:HH11	1.60	0.66
1:E:37:ARG:NH2	1:E:216:HIS:O	2.29	0.66
1:E:293:LEU:N	1:E:293:LEU:HD23	2.10	0.66
1:E:653:HIS:CD2	1:E:667:GLU:HB3	2.31	0.66
1:E:706:THR:O	1:E:708:TRP:N	2.29	0.66
1:E:1011:ALA:HB3	1:E:1014:TYR:CZ	2.30	0.66
1:F:836:ILE:HG22	1:F:837:THR:N	2.09	0.66
1:H:718:GLN:HA	3:H:1248:HOH:O	1.96	0.66
1:K:211:ASP:OD1	1:K:211:ASP:N	2.29	0.66
1:L:351:ILE:N	1:L:563:GLN:O	2.27	0.66
1:M:59:ARG:NH2	1:M:81:ALA:O	2.29	0.66
1:M:102:ASN:ND2	1:M:201:ASP:HB2	2.11	0.66
1:M:110:ASN:O	1:M:113:PHE:N	2.29	0.66
1:M:579:ASP:O	1:M:582:GLY:N	2.29	0.66
1:M:893:GLU:OE1	1:M:893:GLU:HA	1.95	0.66
1:N:449:ASN:HB2	3:N:1290:HOH:O	1.96	0.66
1:P:386:ALA:HA	1:P:407:LEU:HD22	1.77	0.66
1:P:650:GLU:O	1:P:670:LEU:HB2	1.94	0.66
1:P:920:LEU:HB3	1:P:921:PRO:HD2	1.78	0.66
1:B:869:ASP:OD1	1:B:1015:HIS:ND1	2.30	0.65
1:C:59:ARG:NH2	1:C:81:ALA:O	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:ARG:NH1	1:C:395:HIS:N	2.44	0.65
1:E:876:THR:O	1:E:877:PRO:C	2.31	0.65
1:G:53:SER:C	1:G:54:LEU:HD23	2.20	0.65
1:H:625:GLN:CD	1:H:716:ALA:HB1	2.21	0.65
1:H:975:LEU:N	1:H:975:LEU:HD23	2.10	0.65
1:J:197:LEU:HD12	1:J:439:ARG:NE	2.11	0.65
1:J:314:GLU:HB3	1:J:322:LEU:CD1	2.25	0.65
1:J:572:ASP:HB3	1:J:603:MET:HG2	1.78	0.65
1:L:36:TRP:CG	1:L:42:ALA:HB2	2.30	0.65
1:L:360:HIS:HE1	1:L:362:LEU:HB2	1.61	0.65
1:L:622:HIS:HB2	1:L:717:TRP:CZ2	2.31	0.65
1:M:34:ALA:HB3	1:M:36:TRP:CE3	2.30	0.65
1:M:140:ARG:HD2	1:M:215:LEU:HD23	1.78	0.65
1:M:503:TYR:N	1:M:537:GLU:O	2.28	0.65
1:O:333:ARG:NH1	1:O:451:PRO:O	2.28	0.65
1:P:251:ARG:O	1:P:253:TYR:N	2.28	0.65
1:P:333:ARG:NH1	1:P:451:PRO:O	2.29	0.65
1:P:485:GLN:NE2	3:P:1252:HOH:O	2.28	0.65
1:P:708:TRP:CE3	1:P:709:SER:HB3	2.32	0.65
1:P:748:CYS:C	1:P:749:ILE:HD13	2.21	0.65
1:A:360:HIS:CG	1:A:361:PRO:HD2	2.30	0.65
1:B:770:ILE:HD12	1:B:775:GLN:OE1	1.96	0.65
1:C:436:MET:HE3	1:C:467:ASN:HD22	1.60	0.65
1:C:949:HIS:HD2	1:C:1020:TRP:NE1	1.91	0.65
1:E:118:ASN:O	1:E:120:THR:N	2.29	0.65
1:F:166:ARG:HG3	1:F:392:TYR:HB2	1.78	0.65
1:H:377:LEU:CD2	1:H:708:TRP:HA	2.26	0.65
1:H:570:TRP:O	1:H:607:VAL:HG22	1.96	0.65
1:I:23:GLN:O	1:I:24:LEU:HD13	1.96	0.65
1:I:293:LEU:HD23	1:I:293:LEU:N	2.10	0.65
1:I:697:THR:OG1	1:I:719:GLN:NE2	2.29	0.65
1:K:293:LEU:N	1:K:293:LEU:HD23	2.12	0.65
1:L:658:LEU:N	1:L:661:LYS:O	2.29	0.65
1:M:31:PRO:HG2	1:M:225:PHE:CD1	2.31	0.65
1:M:52:ARG:O	1:M:214:LEU:N	2.29	0.65
1:M:200:GLN:O	1:M:204:ARG:NH2	2.29	0.65
1:M:388:ARG:NH2	1:M:460:ASN:OD1	2.28	0.65
1:M:400:THR:CG2	1:M:404:ARG:HD2	2.26	0.65
1:O:847:LYS:NZ	1:O:875:ASP:OD1	2.29	0.65
1:P:706:THR:HG21	1:P:708:TRP:CE2	2.32	0.65
1:B:138:GLN:NE2	1:B:172:ASP:OD2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:646:HIS:NE2	1:D:671:ASP:OD1	2.29	0.65
1:E:322:LEU:HD23	1:E:324:GLU:N	2.11	0.65
1:H:390:SER:HA	1:H:391:HIS:ND1	2.10	0.65
1:I:77:ASP:C	1:I:78:LEU:HD23	2.21	0.65
1:I:279:ILE:CD1	1:L:422:PRO:HG2	2.26	0.65
1:I:672:VAL:CG1	1:I:678:GLN:HB2	2.26	0.65
1:I:894:ARG:NH1	1:I:919:ASP:OD2	2.29	0.65
1:J:655:MET:HG2	1:J:656:VAL:N	2.09	0.65
1:M:158:TRP:CH2	1:M:160:GLY:HA2	2.31	0.65
1:M:260:LEU:N	1:M:268:ALA:O	2.29	0.65
1:M:840:HIS:ND1	1:M:840:HIS:N	2.42	0.65
1:N:18:ASN:N	1:N:193:ASP:OD2	2.29	0.65
1:P:539:ALA:O	1:P:541:ALA:N	2.29	0.65
1:P:796:SER:HB2	1:P:802:ASP:HB3	1.76	0.65
1:D:390:SER:HB2	1:D:391:HIS:CE1	2.31	0.65
1:D:395:HIS:CG	1:D:396:PRO:HD2	2.32	0.65
1:D:701:VAL:CG2	1:D:714:ILE:HD13	2.26	0.65
1:E:759:ASN:OD1	1:E:761:GLN:N	2.29	0.65
1:F:747:PHE:HE2	1:F:825:CYS:HG	1.42	0.65
1:I:502:MET:HB2	1:I:537:GLU:HB2	1.78	0.65
1:I:1005:ALA:HA	1:I:1008:GLN:HG3	1.77	0.65
1:K:102:ASN:HD22	1:K:201:ASP:CB	2.10	0.65
1:K:274:PHE:CD2	1:K:289:VAL:HG12	2.32	0.65
1:L:91:GLN:HB3	1:L:98:PRO:HD3	1.77	0.65
1:L:114:VAL:HG22	1:L:191:TRP:CB	2.27	0.65
1:L:359:HIS:ND1	1:L:573:GLN:HG2	2.10	0.65
1:L:577:LYS:O	1:L:584:PRO:HA	1.96	0.65
1:L:778:THR:CG2	1:L:779:PRO:HD2	2.24	0.65
1:M:246:MET:HB3	1:M:274:PHE:CE2	2.31	0.65
1:M:581:ASN:H	1:M:581:ASN:ND2	1.94	0.65
1:N:73:TRP:CZ2	1:N:185:ALA:HB1	2.30	0.65
1:N:367:MET:HB3	1:N:372:MET:HE2	1.77	0.65
1:N:434:PRO:HB3	1:O:434:PRO:HB3	1.79	0.65
1:O:7:LEU:O	1:O:10:VAL:N	2.29	0.65
1:O:1015:HIS:NE2	1:O:1017:GLN:OE1	2.30	0.65
1:A:390:SER:HB2	1:A:391:HIS:CE1	2.32	0.65
1:E:7:LEU:HD13	1:E:74:LEU:CD1	2.13	0.65
1:F:44:THR:O	1:F:46:ARG:N	2.29	0.65
1:H:30:HIS:ND1	1:H:31:PRO:O	2.29	0.65
1:H:36:TRP:CD1	1:H:41:GLU:HB3	2.31	0.65
1:H:745:MET:HE2	1:H:761:GLN:NE2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:117:GLU:OE1	1:I:117:GLU:N	2.30	0.65
1:K:807:VAL:O	1:K:811:LYS:HG3	1.97	0.65
1:L:627:PHE:C	1:L:628:GLN:HG2	2.22	0.65
1:L:875:ASP:OD1	1:L:875:ASP:N	2.29	0.65
1:M:249:GLU:OE1	1:M:251:ARG:NH2	2.30	0.65
1:M:427:THR:HG22	1:M:436:MET:HE1	1.77	0.65
1:M:433:LEU:HD12	1:M:433:LEU:O	1.94	0.65
1:N:398:TRP:O	1:N:401:LEU:HB2	1.97	0.65
1:N:685:LEU:O	1:N:687:GLN:NE2	2.30	0.65
1:P:258:VAL:O	1:P:269:SER:HA	1.96	0.65
1:P:309:TYR:O	1:P:330:VAL:N	2.27	0.65
1:P:388:ARG:NH1	1:P:537:GLU:OE2	2.30	0.65
1:P:548:GLY:O	1:P:549:PHE:C	2.40	0.65
1:A:194:GLY:O	1:A:198:GLU:HG3	1.95	0.65
1:A:568:TRP:HE1	1:A:604:ASN:ND2	1.93	0.65
1:B:42:ALA:O	1:B:310:ARG:NH1	2.30	0.65
1:B:232:ASN:ND2	1:B:237:ARG:N	2.43	0.65
1:B:706:THR:OG1	1:B:709:SER:N	2.30	0.65
1:C:333:ARG:NH1	1:C:451:PRO:O	2.29	0.65
1:D:7:LEU:N	1:D:71:GLU:OE2	2.29	0.65
1:E:14:ARG:HG2	1:E:14:ARG:NH1	2.12	0.65
1:F:167:LEU:HB3	1:F:168:PRO:HD2	1.76	0.65
1:F:425:ARG:NH2	1:G:287:ASP:OD2	2.30	0.65
1:F:902:PRO:O	1:F:938:ARG:NH1	2.29	0.65
1:F:949:HIS:CD2	1:F:1020:TRP:HE1	2.11	0.65
1:G:188:VAL:C	1:G:189:LEU:HD23	2.22	0.65
1:I:29:ALA:HB3	1:I:445:GLN:NE2	2.12	0.65
1:K:649:ASN:O	1:K:702:GLN:HG2	1.96	0.65
1:K:789:LEU:N	1:K:792:ASP:OD2	2.28	0.65
1:K:902:PRO:O	1:K:938:ARG:NH1	2.30	0.65
1:L:581:ASN:CB	1:L:583:ASN:HD21	2.08	0.65
1:M:282:ARG:O	1:P:421:VAL:HG13	1.97	0.65
1:M:638:VAL:O	1:M:677:LYS:HA	1.97	0.65
1:M:806:TRP:O	1:M:809:ARG:HB2	1.95	0.65
1:M:963:SER:N	1:M:979:GLU:OE1	2.29	0.65
1:N:145:GLY:CA	1:N:210:ARG:HB2	2.27	0.65
1:P:6:SER:OG	1:P:9:VAL:HG23	1.97	0.65
1:A:742:THR:HG22	1:A:743:SER:N	2.12	0.65
1:C:748:CYS:C	1:C:749:ILE:HD13	2.21	0.65
1:D:377:LEU:HD22	1:D:708:TRP:HA	1.79	0.65
1:E:445:GLN:HE22	1:H:430:PRO:HG2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:129:VAL:HG23	1:F:182:ASN:ND2	2.12	0.65
1:F:869:ASP:OD1	1:F:1015:HIS:ND1	2.30	0.65
1:G:427:THR:HA	1:G:436:MET:HE1	1.79	0.65
1:H:615:PRO:HG2	1:H:904:GLU:OE2	1.96	0.65
1:J:380:LYS:HE3	1:J:406:GLY:O	1.96	0.65
1:K:357:HIS:HE1	1:K:568:TRP:HH2	1.43	0.65
1:M:451:PRO:O	1:M:453:VAL:N	2.30	0.65
1:O:471:LEU:O	1:O:475:ILE:HG13	1.96	0.65
1:P:224:ASP:OD1	1:P:225:PHE:N	2.28	0.65
1:A:533:LEU:HD12	1:A:533:LEU:C	2.22	0.65
1:A:894:ARG:HH12	1:A:920:LEU:CA	2.10	0.65
1:B:334:GLU:OE1	1:B:336:ARG:NH1	2.30	0.65
1:C:917:ARG:NH2	1:C:943:GLU:OE2	2.29	0.65
1:E:66:PRO:HB3	1:E:187:MET:CE	2.27	0.65
1:E:333:ARG:NH1	1:E:451:PRO:O	2.30	0.65
1:E:770:ILE:HD12	1:E:775:GLN:CD	2.22	0.65
1:G:66:PRO:HB3	1:G:187:MET:CE	2.27	0.65
1:G:531:ARG:O	1:G:561:ARG:NH1	2.29	0.65
1:H:224:ASP:OD1	1:H:225:PHE:N	2.30	0.65
1:H:275:GLY:HA2	1:H:285:TYR:O	1.96	0.65
1:I:651:LEU:HD12	1:I:652:LEU:H	1.59	0.65
1:L:608:PHE:O	1:L:611:ARG:N	2.27	0.65
1:L:646:HIS:NE2	1:L:671:ASP:OD1	2.29	0.65
1:M:381:GLN:NE2	1:M:708:TRP:O	2.29	0.65
1:M:822:LEU:HD12	1:M:824:GLN:N	2.11	0.65
1:N:375:ASP:O	1:N:379:MET:HE3	1.96	0.65
1:O:92:MET:HE2	1:O:363:HIS:C	2.21	0.65
1:P:324:GLU:HG2	1:P:325:ALA:N	2.11	0.65
1:A:600:GLN:NE2	1:A:790:ASP:OD1	2.30	0.65
1:B:333:ARG:NH1	1:B:451:PRO:O	2.30	0.65
1:B:421:VAL:O	1:B:425:ARG:NH1	2.29	0.65
1:B:441:THR:O	1:B:445:GLN:HG3	1.97	0.65
1:B:658:LEU:O	1:B:661:LYS:HD3	1.96	0.65
1:B:696:LEU:HD12	1:B:697:THR:N	2.11	0.65
1:C:658:LEU:O	1:C:659:ASP:C	2.39	0.65
1:E:486:TYR:CE2	1:E:488:GLY:HA3	2.31	0.65
1:F:531:ARG:O	1:F:561:ARG:NH1	2.28	0.65
1:F:893:GLU:HA	1:F:893:GLU:OE1	1.97	0.65
1:G:322:LEU:HD21	1:G:324:GLU:O	1.97	0.65
1:L:806:TRP:O	1:L:809:ARG:N	2.29	0.65
1:L:830:LEU:HB2	1:L:833:ALA:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1008:GLN:O	1:L:1010:SER:N	2.30	0.65
1:N:152:LEU:HD12	1:N:153:TRP:H	1.62	0.65
1:N:202:MET:HB2	1:N:573:GLN:OE1	1.97	0.65
1:P:400:THR:HG22	1:P:404:ARG:HD3	1.76	0.65
1:A:1020:TRP:HD1	1:A:1021:CYS:N	1.95	0.65
1:E:579:ASP:OD2	1:E:583:ASN:HB2	1.97	0.65
1:F:568:TRP:HE1	1:F:604:ASN:HD22	1.45	0.65
1:H:400:THR:O	1:H:404:ARG:HD2	1.97	0.65
1:H:413:ALA:O	1:H:415:ILE:N	2.29	0.65
1:H:1020:TRP:HD1	1:H:1021:CYS:N	1.95	0.65
1:K:319:ASP:OD1	1:K:320:GLY:N	2.29	0.65
1:K:954:ASP:HB3	1:L:1013:ARG:NH2	2.12	0.65
1:M:778:THR:CG2	1:M:779:PRO:HD2	2.27	0.65
1:O:646:HIS:O	1:O:648:ASP:N	2.30	0.65
1:P:634:GLN:O	1:P:682:LEU:HB2	1.96	0.65
1:A:166:ARG:HG2	1:A:392:TYR:CB	2.18	0.64
1:A:619:GLU:HA	1:A:912:ALA:HB2	1.78	0.64
1:B:429:ASP:OD2	1:B:431:ARG:NH1	2.30	0.64
1:D:78:LEU:N	1:D:78:LEU:HD23	2.11	0.64
1:E:260:LEU:HD12	1:E:310:ARG:O	1.96	0.64
1:F:7:LEU:N	1:F:71:GLU:OE2	2.29	0.64
1:F:892:ALA:HB3	1:F:946:TYR:CE1	2.31	0.64
1:G:128:ASN:HA	1:G:180:GLY:O	1.97	0.64
1:G:724:GLU:HB2	1:H:874:SER:OG	1.97	0.64
1:G:932:PRO:HG2	1:G:970:THR:O	1.97	0.64
1:I:59:ARG:CZ	1:I:81:ALA:HB3	2.27	0.64
1:I:425:ARG:NH2	1:L:287:ASP:OD2	2.30	0.64
1:J:287:ASP:OD2	1:K:425:ARG:NH2	2.30	0.64
1:K:18:ASN:CG	1:K:21:VAL:HG23	2.22	0.64
1:K:654:TRP:CE2	1:K:666:GLY:HA3	2.32	0.64
1:K:898:LEU:HD13	1:K:917:ARG:NH1	2.12	0.64
1:L:100:TYR:CZ	1:L:602:CYS:HB3	2.31	0.64
1:L:600:GLN:NE2	1:L:790:ASP:OD1	2.30	0.64
1:M:608:PHE:O	1:M:611:ARG:N	2.29	0.64
1:N:696:LEU:HD12	1:N:697:THR:N	2.12	0.64
1:O:243:GLU:OE2	1:O:245:GLN:NE2	2.31	0.64
1:O:950:GLN:OE1	1:O:952:ARG:NE	2.30	0.64
1:P:616:ALA:O	1:P:618:THR:N	2.30	0.64
1:P:703:PRO:O	1:P:711:ALA:HB1	1.97	0.64
1:P:970:THR:CG2	1:P:976:LEU:HD23	2.27	0.64
1:D:397:LEU:HD12	1:D:397:LEU:O	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:274:PHE:HB3	1:E:286:ALA:O	1.97	0.64
1:G:756:TRP:NE1	1:G:768:MET:HE3	2.12	0.64
1:H:42:ALA:O	1:H:310:ARG:NH1	2.30	0.64
1:H:118:ASN:ND2	1:H:191:TRP:O	2.30	0.64
1:H:371:THR:O	1:H:374:GLN:N	2.29	0.64
1:H:413:ALA:HB3	1:H:458:LEU:O	1.96	0.64
1:H:759:ASN:OD1	1:H:761:GLN:N	2.29	0.64
1:I:600:GLN:O	1:I:603:MET:N	2.29	0.64
1:K:658:LEU:O	1:K:660:GLY:N	2.30	0.64
1:L:123:TYR:CD2	1:L:208:ILE:HD12	2.33	0.64
1:L:460:ASN:O	1:L:461:GLU:C	2.40	0.64
1:L:701:VAL:O	1:L:703:PRO:HD3	1.98	0.64
1:L:975:LEU:HD23	1:L:975:LEU:N	2.07	0.64
1:M:502:MET:CB	1:M:537:GLU:HB2	2.25	0.64
1:N:446:ARG:NE	1:N:447:ASP:OD1	2.30	0.64
1:N:592:PHE:HB2	1:N:594:ASP:OD1	1.96	0.64
1:O:167:LEU:HB3	1:O:168:PRO:HD2	1.78	0.64
1:P:71:GLU:O	1:P:74:LEU:HB2	1.97	0.64
1:C:147:ASN:HB3	1:C:206:SER:HA	1.78	0.64
1:C:372:MET:HE2	1:C:398:TRP:HB2	1.78	0.64
1:D:102:ASN:OD1	1:D:103:VAL:HG23	1.97	0.64
1:D:130:ASP:OD1	1:D:131:GLU:N	2.30	0.64
1:D:814:GLY:O	1:D:815:HIS:C	2.38	0.64
1:E:474:TRP:CZ2	1:E:478:VAL:HG21	2.31	0.64
1:F:579:ASP:OD1	1:F:583:ASN:N	2.29	0.64
1:G:53:SER:O	1:G:54:LEU:HD23	1.98	0.64
1:I:434:PRO:O	1:I:437:SER:HB3	1.97	0.64
1:K:608:PHE:O	1:K:611:ARG:N	2.30	0.64
1:L:599:ARG:NH1	1:L:600:GLN:OE1	2.28	0.64
1:M:333:ARG:NH1	1:M:451:PRO:O	2.30	0.64
1:O:85:VAL:O	1:O:88:SER:HB3	1.98	0.64
1:O:100:TYR:CE2	1:O:602:CYS:HB3	2.32	0.64
1:O:194:GLY:O	1:O:198:GLU:HG3	1.97	0.64
1:P:86:VAL:CG2	1:P:123:TYR:HE2	2.11	0.64
1:P:447:ASP:O	1:P:449:ASN:N	2.29	0.64
1:P:541:ALA:HB1	1:P:606:LEU:HD23	1.79	0.64
1:P:571:VAL:HG12	1:P:572:ASP:N	2.11	0.64
1:P:823:LEU:HD11	1:P:841:ALA:HB2	1.78	0.64
1:P:935:ASN:O	1:P:937:LEU:N	2.29	0.64
1:A:251:ARG:O	1:A:253:TYR:N	2.30	0.64
1:C:902:PRO:O	1:C:938:ARG:NH1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:36:TRP:CE3	1:E:42:ALA:HB2	2.31	0.64
1:E:155:ASN:ND2	1:E:182:ASN:OD1	2.29	0.64
1:E:365:GLN:OE1	3:E:1243:HOH:O	2.15	0.64
1:E:738:PRO:HG2	1:E:834:VAL:HG23	1.79	0.64
1:F:347:LYS:HB3	1:F:348:PRO:HD2	1.79	0.64
1:G:540:HIS:CD2	1:G:568:TRP:HD1	2.16	0.64
1:H:474:TRP:CE2	1:H:478:VAL:HG21	2.33	0.64
1:H:703:PRO:O	1:H:711:ALA:HB1	1.98	0.64
1:I:147:ASN:HB2	1:I:209:PHE:HE2	1.63	0.64
1:I:658:LEU:O	1:I:661:LYS:HB2	1.98	0.64
1:J:820:ALA:HB2	1:J:842:TRP:CE2	2.32	0.64
1:K:544:ASN:HB3	1:K:789:LEU:HD22	1.79	0.64
1:K:933:SER:O	1:K:935:ASN:ND2	2.29	0.64
1:L:7:LEU:HD13	1:L:74:LEU:HD11	1.79	0.64
1:M:350:LEU:O	1:M:385:ASN:ND2	2.30	0.64
1:M:403:ASP:OD2	1:M:450:HIS:ND1	2.30	0.64
1:M:441:THR:HG22	1:M:474:TRP:CH2	2.32	0.64
1:M:646:HIS:NE2	1:M:671:ASP:OD1	2.29	0.64
1:N:243:GLU:OE2	1:N:245:GLN:NE2	2.30	0.64
1:N:949:HIS:CD2	1:N:1020:TRP:HE1	2.14	0.64
1:O:878:HIS:CD2	1:O:1010:SER:HB3	2.31	0.64
1:P:53:SER:C	1:P:54:LEU:HD23	2.23	0.64
1:P:682:LEU:CD2	1:P:683:PRO:HD2	2.28	0.64
1:B:902:PRO:O	1:B:938:ARG:NH1	2.27	0.64
1:D:796:SER:OG	1:D:801:ILE:HA	1.97	0.64
1:E:985:ASN:HB3	3:E:1282:HOH:O	1.97	0.64
1:F:217:LYS:NZ	1:F:222:ILE:O	2.31	0.64
1:H:138:GLN:HG3	1:H:172:ASP:OD2	1.97	0.64
1:H:353:GLY:O	1:H:566:PHE:HA	1.97	0.64
1:I:78:LEU:HB3	1:I:79:PRO:HD2	1.79	0.64
1:I:211:ASP:OD1	1:I:211:ASP:N	2.28	0.64
1:I:928:PRO:HB2	1:I:973:ARG:HH11	1.61	0.64
1:L:180:GLY:O	1:L:182:ASN:ND2	2.30	0.64
1:L:350:LEU:HD12	1:L:563:GLN:O	1.97	0.64
1:A:102:ASN:ND2	1:A:201:ASP:OD2	2.31	0.64
1:A:117:GLU:OE1	1:A:117:GLU:N	2.30	0.64
1:A:509:ASP:OD1	1:A:519:SER:N	2.29	0.64
1:B:531:ARG:O	1:B:561:ARG:NH1	2.31	0.64
1:C:50:GLN:NE2	1:C:50:GLN:H	1.96	0.64
1:E:425:ARG:NH2	1:H:287:ASP:OD2	2.30	0.64
1:F:747:PHE:HE2	1:F:825:CYS:SG	2.21	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:802:ASP:O	1:F:804:ASN:N	2.30	0.64
1:G:27:LEU:HD12	1:G:140:ARG:HD3	1.78	0.64
1:H:300:LEU:O	1:H:307:ASN:HB2	1.96	0.64
1:H:429:ASP:OD1	1:H:431:ARG:N	2.29	0.64
1:H:588:TYR:O	1:H:589:GLY:C	2.39	0.64
1:H:1013:ARG:HH11	1:H:1013:ARG:HG3	1.63	0.64
1:I:197:LEU:HD12	1:I:439:ARG:HE	1.63	0.64
1:K:390:SER:HA	1:K:391:HIS:ND1	2.13	0.64
1:K:601:PHE:HE2	1:K:795:VAL:HG12	1.62	0.64
1:L:73:TRP:CZ2	1:L:185:ALA:HB1	2.32	0.64
1:N:627:PHE:O	1:N:628:GLN:NE2	2.30	0.64
1:O:356:ARG:HH22	1:O:367:MET:CE	2.10	0.64
1:P:218:PRO:O	1:P:221:GLN:NE2	2.29	0.64
1:P:810:TRP:O	1:P:813:ALA:N	2.29	0.64
1:P:894:ARG:NH1	1:P:921:PRO:HD3	2.12	0.64
1:A:499:ILE:HB	1:A:533:LEU:HB2	1.80	0.64
1:B:748:CYS:C	1:B:749:ILE:HD12	2.23	0.64
1:E:578:TYR:HA	1:E:583:ASN:O	1.98	0.64
1:H:27:LEU:HD12	1:H:140:ARG:NH1	2.12	0.64
1:J:36:TRP:O	1:J:37:ARG:HD3	1.97	0.64
1:K:50:GLN:NE2	1:K:50:GLN:H	1.96	0.64
1:K:658:LEU:N	1:K:661:LYS:O	2.29	0.64
1:K:885:ASN:HB2	1:K:984:LEU:O	1.98	0.64
1:L:595:THR:HG23	1:L:596:PRO:HA	1.78	0.64
1:L:961:ARG:NH2	1:L:979:GLU:O	2.29	0.64
1:M:161:TYR:OH	1:M:163:GLN:NE2	2.30	0.64
1:M:881:ARG:HD3	1:M:987:ASP:OD1	1.98	0.64
1:N:287:ASP:OD2	1:O:425:ARG:NH2	2.31	0.64
1:N:770:ILE:HD11	1:N:1022:GLN:HG2	1.78	0.64
1:O:7:LEU:O	1:O:9:VAL:N	2.31	0.64
1:P:150:PHE:HB2	1:P:187:MET:O	1.98	0.64
1:P:571:VAL:HG21	1:P:611:ARG:NH1	2.13	0.64
1:P:579:ASP:O	1:P:580:GLU:HG2	1.98	0.64
1:A:6:SER:O	1:A:7:LEU:C	2.40	0.64
1:A:902:PRO:O	1:A:938:ARG:NH1	2.30	0.64
1:B:293:LEU:HD23	1:B:293:LEU:N	2.12	0.64
1:D:854:LYS:HA	1:D:867:THR:O	1.98	0.64
1:D:1020:TRP:HD1	1:D:1021:CYS:N	1.96	0.64
1:G:66:PRO:O	1:G:69:VAL:HG23	1.97	0.64
1:H:608:PHE:O	1:H:611:ARG:N	2.27	0.64
1:J:78:LEU:HB3	1:J:79:PRO:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:40:GLU:O	1:L:44:THR:HG23	1.98	0.64
1:L:196:TYR:HD2	1:L:420:MET:HE1	1.61	0.64
1:L:625:GLN:CD	1:L:716:ALA:HB1	2.22	0.64
1:L:749:ILE:O	1:L:755:ARG:HA	1.98	0.64
1:M:100:TYR:CE2	1:M:602:CYS:HB3	2.33	0.64
1:M:347:LYS:HG3	1:M:644:PHE:HE1	1.62	0.64
1:P:738:PRO:HA	1:P:751:LEU:HD12	1.80	0.64
1:A:237:ARG:HG3	1:A:237:ARG:NH1	2.12	0.64
1:D:79:PRO:HG2	1:D:80:GLU:HG2	1.79	0.64
1:D:936:GLY:O	1:D:937:LEU:C	2.39	0.64
1:E:22:THR:O	1:E:26:ARG:NH2	2.30	0.64
1:E:689:GLU:O	1:E:690:SER:C	2.41	0.64
1:E:986:ILE:HG21	1:E:1018:LEU:HD11	1.79	0.64
1:F:619:GLU:HA	1:F:912:ALA:HB2	1.80	0.64
1:G:693:GLN:HG3	1:G:724:GLU:HG3	1.79	0.64
1:I:939:CYS:HA	1:I:956:GLN:HB3	1.79	0.64
1:J:894:ARG:NH1	1:J:919:ASP:OD2	2.30	0.64
1:K:102:ASN:HD22	1:K:201:ASP:CG	2.05	0.64
1:L:473:ARG:NH1	1:L:477:SER:OG	2.30	0.64
1:M:148:SER:OG	1:M:149:ALA:N	2.30	0.64
1:M:202:MET:HE3	1:M:357:HIS:CD2	2.31	0.64
1:M:221:GLN:O	1:M:247:CYS:N	2.29	0.64
1:M:743:SER:OG	1:M:744:GLU:N	2.30	0.64
1:O:73:TRP:O	1:O:183:ARG:NH1	2.31	0.64
1:P:205:MET:HE3	1:P:365:GLN:HG3	1.80	0.64
1:P:898:LEU:HD23	1:P:942:ARG:HB2	1.79	0.64
1:B:177:LEU:N	1:B:177:LEU:HD23	2.13	0.64
1:E:18:ASN:N	1:E:193:ASP:OD2	2.31	0.64
1:E:217:LYS:NZ	1:E:324:GLU:OE2	2.29	0.64
1:E:336:ARG:HH21	1:E:338:GLU:CD	2.06	0.64
1:E:810:TRP:CH2	1:E:991:MET:HE2	2.32	0.64
1:F:649:ASN:O	1:F:702:GLN:HA	1.98	0.64
1:G:7:LEU:HD12	1:G:7:LEU:H	1.63	0.64
1:G:1020:TRP:HD1	1:G:1021:CYS:N	1.96	0.64
1:G:1022:GLN:N	1:G:1022:GLN:OE1	2.31	0.64
1:H:376:ILE:HD11	1:H:398:TRP:CZ3	2.33	0.64
1:H:770:ILE:HD12	1:H:775:GLN:CD	2.23	0.64
1:I:308:LEU:HD13	1:I:329:ASP:HB3	1.79	0.64
1:I:316:HIS:ND1	1:I:316:HIS:N	2.46	0.64
1:I:474:TRP:CE2	1:I:478:VAL:HG21	2.33	0.64
1:I:502:MET:HE2	1:I:537:GLU:OE1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:73:TRP:CZ2	1:J:122:CYS:HB3	2.33	0.64
1:J:355:ASN:N	1:J:355:ASN:ND2	2.46	0.64
1:M:285:TYR:CB	1:M:288:ARG:HG3	2.27	0.64
1:M:429:ASP:O	1:M:432:TRP:N	2.29	0.64
1:M:887:GLN:OE1	1:M:981:GLY:N	2.30	0.64
1:N:262:GLN:HB2	1:N:309:TYR:CE1	2.33	0.64
1:O:967:LEU:N	1:O:967:LEU:HD23	2.10	0.64
1:P:34:ALA:HB3	1:P:36:TRP:CE3	2.33	0.64
1:P:260:LEU:O	1:P:267:VAL:N	2.27	0.64
1:B:775:GLN:NE2	1:B:775:GLN:HA	2.13	0.63
1:C:638:VAL:O	1:C:677:LYS:HA	1.98	0.63
1:E:275:GLY:N	1:E:286:ALA:O	2.28	0.63
1:E:331:GLY:HA2	3:E:1211:HOH:O	1.98	0.63
1:F:130:ASP:OD1	1:F:132:SER:HB3	1.98	0.63
1:F:254:LEU:O	1:F:255:ARG:HD3	1.97	0.63
1:F:261:TRP:CE2	1:F:266:GLN:HG3	2.34	0.63
1:F:961:ARG:NH2	1:F:979:GLU:O	2.29	0.63
1:I:383:ASN:ND2	1:I:625:GLN:HA	2.13	0.63
1:I:653:HIS:NE2	1:I:667:GLU:HG2	2.13	0.63
1:I:897:TRP:CZ3	1:I:918:TRP:HB2	2.32	0.63
1:K:6:SER:OG	1:K:8:ALA:HB3	1.97	0.63
1:L:72:SER:O	1:L:76:CYS:N	2.30	0.63
1:M:251:ARG:O	1:M:253:TYR:N	2.30	0.63
1:M:942:ARG:NH2	1:M:954:ASP:OD2	2.31	0.63
1:N:293:LEU:HD23	1:N:293:LEU:N	2.11	0.63
1:P:13:ARG:HB2	1:P:15:ASP:OD2	1.98	0.63
1:P:84:VAL:HG12	1:P:85:VAL:N	2.13	0.63
1:P:221:GLN:O	1:P:221:GLN:HG2	1.98	0.63
1:B:930:VAL:HA	1:B:973:ARG:HD3	1.79	0.63
1:E:166:ARG:HG2	1:E:392:TYR:CB	2.24	0.63
1:F:786:ARG:HH11	1:F:990:HIS:HE1	1.46	0.63
1:G:128:ASN:HD21	1:G:180:GLY:HA2	1.63	0.63
1:H:52:ARG:O	1:H:214:LEU:N	2.28	0.63
1:H:127:PHE:O	1:H:182:ASN:N	2.29	0.63
1:I:822:LEU:HD12	1:I:824:GLN:H	1.63	0.63
1:J:127:PHE:CE1	1:J:184:LEU:HG	2.34	0.63
1:K:660:GLY:O	1:K:662:PRO:HD3	1.97	0.63
1:L:738:PRO:HA	1:L:751:LEU:HD12	1.80	0.63
1:M:418:HIS:O	1:P:282:ARG:HD3	1.98	0.63
1:N:165:SER:O	1:N:166:ARG:HD2	1.97	0.63
1:N:300:LEU:N	1:N:300:LEU:HD23	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:361:PRO:O	1:P:575:LEU:HB3	1.97	0.63
1:P:465:GLY:O	1:P:468:HIS:HB2	1.97	0.63
1:P:902:PRO:HG3	1:P:918:TRP:CZ3	2.33	0.63
1:B:145:GLY:HA3	1:B:210:ARG:HG3	1.79	0.63
1:B:536:CYS:O	1:B:566:PHE:HB2	1.98	0.63
1:D:902:PRO:O	1:D:938:ARG:NH1	2.31	0.63
1:E:447:ASP:O	1:E:449:ASN:N	2.31	0.63
1:F:246:MET:HG2	1:F:274:PHE:CZ	2.33	0.63
1:F:615:PRO:HD2	3:F:1286:HOH:O	1.98	0.63
1:G:317:THR:HG23	1:G:323:ILE:HD11	1.80	0.63
1:G:347:LYS:HG3	1:G:644:PHE:CE1	2.33	0.63
1:H:110:ASN:ND2	1:H:113:PHE:HD2	1.96	0.63
1:H:357:HIS:HE1	1:H:568:TRP:CH2	2.16	0.63
1:J:281:GLU:OE1	1:J:281:GLU:N	2.29	0.63
1:J:595:THR:HA	1:J:596:PRO:C	2.23	0.63
1:J:654:TRP:NE1	1:J:666:GLY:HA3	2.14	0.63
1:K:580:GLU:HB2	1:K:581:ASN:ND2	2.13	0.63
1:K:907:PRO:HA	1:K:910:LEU:HD23	1.80	0.63
1:K:1004:SER:O	1:K:1005:ALA:C	2.39	0.63
1:L:736:ALA:O	1:L:737:ILE:HG22	1.97	0.63
1:A:114:VAL:HG13	1:A:115:PRO:CD	2.25	0.63
1:E:531:ARG:O	1:E:561:ARG:NH1	2.31	0.63
1:F:338:GLU:C	3:F:1262:HOH:O	2.42	0.63
1:G:686:PRO:O	1:G:688:PRO:HD3	1.98	0.63
1:H:835:LEU:C	1:H:836:ILE:HD13	2.24	0.63
1:K:232:ASN:N	1:K:232:ASN:OD1	2.30	0.63
1:M:43:ARG:HG2	1:M:44:THR:HG23	1.81	0.63
1:M:422:PRO:HG2	1:P:279:ILE:CD1	2.29	0.63
1:M:894:ARG:HD3	1:M:919:ASP:OD1	1.99	0.63
1:N:571:VAL:CG2	1:N:609:ALA:HA	2.28	0.63
1:N:624:GLN:NE2	3:N:1217:HOH:O	2.31	0.63
1:P:72:SER:O	1:P:76:CYS:N	2.30	0.63
1:P:127:PHE:O	1:P:182:ASN:N	2.31	0.63
1:P:597:ASN:HD22	1:P:599:ARG:H	1.46	0.63
1:A:542:MET:HE3	1:A:601:PHE:HA	1.80	0.63
1:B:823:LEU:HB2	1:B:839:ALA:O	1.98	0.63
1:C:797:GLU:O	1:C:801:ILE:HG13	1.98	0.63
1:D:505:ARG:NE	3:D:1256:HOH:O	2.31	0.63
1:D:579:ASP:O	1:D:582:GLY:N	2.29	0.63
1:E:3:ILE:HG13	1:E:3:ILE:O	1.94	0.63
1:H:73:TRP:O	1:H:183:ARG:NH1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:568:TRP:CD2	1:H:569:ASP:HB3	2.33	0.63
1:I:916:ASP:OD1	1:I:917:ARG:N	2.28	0.63
1:I:961:ARG:CB	1:I:978:ALA:HB1	2.27	0.63
1:K:217:LYS:HG2	1:K:218:PRO:HD2	1.81	0.63
1:K:359:HIS:ND1	1:K:573:GLN:HG2	2.14	0.63
1:K:412:GLU:HG3	1:K:457:SER:OG	1.98	0.63
1:M:301:TRP:CD1	1:M:306:PRO:HA	2.34	0.63
1:M:472:TYR:CE1	1:M:476:LYS:HD3	2.34	0.63
1:M:668:VAL:CG1	1:M:669:PRO:HD2	2.27	0.63
1:N:881:ARG:NH2	1:N:964:GLN:OE1	2.30	0.63
1:P:7:LEU:O	1:P:8:ALA:C	2.40	0.63
1:P:413:ALA:O	1:P:415:ILE:N	2.30	0.63
1:P:701:VAL:HG22	1:P:714:ILE:HD11	1.76	0.63
1:P:950:GLN:OE1	1:P:952:ARG:NH2	2.31	0.63
1:A:425:ARG:NH2	1:D:287:ASP:OD2	2.32	0.63
1:A:519:SER:O	1:A:520:ILE:C	2.39	0.63
1:B:608:PHE:O	1:B:611:ARG:N	2.31	0.63
1:E:138:GLN:N	1:E:217:LYS:O	2.29	0.63
1:E:639:THR:HA	1:E:676:GLY:O	1.99	0.63
1:G:249:GLU:HG2	1:G:251:ARG:HE	1.62	0.63
1:H:147:ASN:HB2	1:H:209:PHE:CE1	2.33	0.63
1:H:856:TYR:HD2	1:H:864:MET:CE	2.11	0.63
1:I:789:LEU:CD1	1:I:993:ILE:HG22	2.27	0.63
1:I:925:MET:HB3	3:I:1271:HOH:O	1.98	0.63
1:K:925:MET:HB3	3:K:1268:HOH:O	1.99	0.63
1:L:658:LEU:O	1:L:661:LYS:N	2.31	0.63
1:L:782:ASP:HB2	1:L:842:TRP:CZ2	2.33	0.63
1:M:194:GLY:O	1:M:198:GLU:HG3	1.98	0.63
1:M:870:VAL:HG12	1:M:871:GLU:N	2.12	0.63
1:N:650:GLU:HB3	1:N:670:LEU:HB2	1.81	0.63
1:O:59:ARG:NH1	1:O:78:LEU:O	2.29	0.63
1:O:485:GLN:HA	1:O:496:THR:OG1	1.98	0.63
1:O:524:LEU:HD11	1:O:562:LEU:CD2	2.28	0.63
1:O:668:VAL:HG11	1:O:680:ILE:HG23	1.81	0.63
1:P:138:GLN:HG3	1:P:172:ASP:OD2	1.97	0.63
1:C:581:ASN:OD1	1:C:581:ASN:N	2.29	0.63
1:D:336:ARG:NH2	1:D:338:GLU:OE2	2.31	0.63
1:E:402:CYS:HB3	1:E:407:LEU:HB2	1.81	0.63
1:E:487:GLU:HG2	1:E:491:ALA:HB2	1.81	0.63
1:F:400:THR:HG23	1:F:404:ARG:HD2	1.78	0.63
1:H:736:ALA:O	1:H:737:ILE:HG22	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:127:PHE:HE1	1:J:184:LEU:HG	1.64	0.63
1:L:413:ALA:CA	1:L:443:MET:HE2	2.28	0.63
1:M:59:ARG:CZ	1:M:81:ALA:HB3	2.29	0.63
1:M:279:ILE:CD1	1:P:424:ASN:HB2	2.28	0.63
1:M:645:ARG:NH1	1:M:646:HIS:O	2.30	0.63
1:P:356:ARG:HH11	1:P:356:ARG:CG	2.12	0.63
1:F:604:ASN:ND2	3:F:1260:HOH:O	2.29	0.63
1:F:719:GLN:NE2	1:F:914:CYS:HB2	2.14	0.63
1:F:916:ASP:OD1	1:F:917:ARG:N	2.29	0.63
1:G:427:THR:HA	1:G:436:MET:CE	2.28	0.63
1:G:991:MET:HG3	1:G:992:GLY:N	2.12	0.63
1:H:36:TRP:CD2	1:H:42:ALA:HB2	2.34	0.63
1:H:129:VAL:HG21	1:H:177:LEU:HD12	1.80	0.63
1:H:888:LEU:O	1:H:981:GLY:HA3	1.98	0.63
1:I:367:MET:HB3	1:I:372:MET:HE3	1.81	0.63
1:I:578:TYR:HA	1:I:583:ASN:O	1.99	0.63
1:K:10:VAL:HG21	1:K:153:TRP:HZ2	1.63	0.63
1:K:412:GLU:HG3	1:K:457:SER:HB3	1.81	0.63
1:K:599:ARG:HD2	1:K:600:GLN:OE1	1.98	0.63
1:N:62:TRP:CZ2	1:N:119:PRO:HB3	2.33	0.63
1:N:155:ASN:HB3	1:N:178:ARG:NH2	2.13	0.63
1:O:429:ASP:OD1	1:O:431:ARG:HD3	1.98	0.63
1:P:44:THR:OG1	1:P:46:ARG:HG2	1.98	0.63
1:P:485:GLN:HA	1:P:496:THR:OG1	1.99	0.63
1:P:670:LEU:HD22	1:P:678:GLN:OE1	1.97	0.63
1:B:211:ASP:N	1:B:211:ASP:OD1	2.29	0.63
1:C:673:ALA:O	1:C:674:PRO:C	2.41	0.63
1:D:37:ARG:NH2	1:D:218:PRO:HD3	2.14	0.63
1:E:18:ASN:HB3	1:E:21:VAL:HG23	1.81	0.63
1:E:906:TYR:HB3	1:E:907:PRO:CD	2.27	0.63
1:H:357:HIS:HE1	1:H:568:TRP:HH2	1.46	0.63
1:J:738:PRO:HG2	1:J:834:VAL:HG23	1.80	0.63
1:K:485:GLN:NE2	3:K:1250:HOH:O	2.30	0.63
1:K:499:ILE:O	1:K:533:LEU:HD13	1.98	0.63
1:L:84:VAL:HG12	1:L:85:VAL:N	2.14	0.63
1:L:622:HIS:O	1:L:625:GLN:HG2	1.97	0.63
1:N:471:LEU:O	1:N:475:ILE:HG13	1.99	0.63
1:N:696:LEU:HD12	1:N:697:THR:H	1.62	0.63
1:O:190:ARG:NH2	1:O:204:ARG:O	2.30	0.63
1:O:438:GLU:O	1:O:442:ARG:HG3	1.98	0.63
1:P:86:VAL:HG21	1:P:123:TYR:HE2	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:503:TYR:N	1:P:537:GLU:O	2.30	0.63
1:P:898:LEU:O	1:P:941:THR:HG22	1.99	0.63
1:A:557:ARG:NH2	1:A:628:GLN:NE2	2.47	0.62
1:A:824:GLN:O	1:A:838:THR:HA	1.99	0.62
1:B:920:LEU:HB3	1:B:921:PRO:HD2	1.80	0.62
1:C:830:LEU:HB3	1:D:828:ASP:OD2	1.99	0.62
1:D:237:ARG:HD3	1:D:296:GLU:HG2	1.80	0.62
1:D:660:GLY:O	1:D:662:PRO:HD3	1.98	0.62
1:E:129:VAL:CG2	1:E:182:ASN:HD22	2.12	0.62
1:E:893:GLU:OE1	1:E:893:GLU:HA	1.98	0.62
1:E:963:SER:O	1:E:964:GLN:C	2.39	0.62
1:G:202:MET:HE1	1:G:392:TYR:HE2	1.64	0.62
1:G:778:THR:HB	1:G:887:GLN:H	1.64	0.62
1:G:897:TRP:CH2	1:G:918:TRP:HB2	2.34	0.62
1:H:24:LEU:HB2	1:H:161:TYR:HB3	1.79	0.62
1:J:776:LEU:N	1:J:776:LEU:HD23	2.14	0.62
1:L:14:ARG:HG2	1:L:16:TRP:CZ2	2.33	0.62
1:L:252:ASP:O	1:L:255:ARG:NH1	2.29	0.62
1:L:287:ASP:N	1:L:287:ASP:OD1	2.29	0.62
1:M:39:SER:OG	1:M:40:GLU:N	2.30	0.62
1:M:63:PHE:HB3	1:M:64:PRO:HD2	1.81	0.62
1:M:786:ARG:HA	1:M:964:GLN:OE1	1.99	0.62
1:M:960:SER:N	3:M:1250:HOH:O	2.32	0.62
1:M:975:LEU:HD23	1:M:975:LEU:N	2.14	0.62
1:O:377:LEU:CD2	1:O:708:TRP:HA	2.27	0.62
1:P:849:LEU:N	1:P:849:LEU:HD23	2.13	0.62
1:B:40:GLU:HG3	1:B:43:ARG:NH1	2.14	0.62
1:B:210:ARG:NH1	1:B:395:HIS:HA	2.14	0.62
1:B:719:GLN:N	3:B:1248:HOH:O	2.32	0.62
1:D:729:THR:C	1:D:730:LEU:HD23	2.24	0.62
1:E:39:SER:OG	1:E:40:GLU:N	2.30	0.62
1:E:195:SER:O	1:E:198:GLU:N	2.31	0.62
1:E:601:PHE:CZ	1:E:795:VAL:HG12	2.34	0.62
1:E:917:ARG:HH22	1:E:943:GLU:CD	2.07	0.62
1:F:255:ARG:N	1:F:316:HIS:O	2.30	0.62
1:H:36:TRP:C	1:H:37:ARG:HD3	2.24	0.62
1:H:251:ARG:HB3	1:H:253:TYR:HE1	1.59	0.62
1:I:336:ARG:HH21	1:I:338:GLU:CD	2.05	0.62
1:K:412:GLU:HG3	1:K:457:SER:CB	2.28	0.62
1:L:753:ASN:OD1	1:L:753:ASN:N	2.29	0.62
1:L:937:LEU:C	1:L:938:ARG:HG2	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:653:HIS:CD2	1:M:667:GLU:HB3	2.34	0.62
1:M:971:SER:OG	1:M:972:HIS:ND1	2.29	0.62
1:N:57:GLU:HB3	1:N:83:THR:CG2	2.28	0.62
1:O:218:PRO:O	1:O:221:GLN:NE2	2.30	0.62
1:O:274:PHE:HB3	1:O:286:ALA:O	1.98	0.62
1:O:654:TRP:NE1	1:O:666:GLY:HA3	2.13	0.62
1:B:382:ASN:ND2	1:B:617:LEU:HD21	2.14	0.62
1:C:91:GLN:NE2	1:C:96:ASP:OD1	2.32	0.62
1:D:237:ARG:CD	1:D:296:GLU:HG2	2.29	0.62
1:F:282:ARG:HG3	1:G:423:MET:HG3	1.81	0.62
1:F:653:HIS:O	1:F:698:VAL:HA	1.99	0.62
1:F:894:ARG:NH1	1:F:919:ASP:O	2.32	0.62
1:G:753:ASN:OD1	1:G:753:ASN:N	2.28	0.62
1:G:933:SER:O	1:G:934:GLU:C	2.39	0.62
1:H:79:PRO:CD	1:H:80:GLU:H	2.13	0.62
1:H:902:PRO:HD3	1:H:918:TRP:CZ2	2.34	0.62
1:I:746:ASP:CA	1:I:760:ARG:HG3	2.21	0.62
1:J:23:GLN:O	1:J:24:LEU:HD13	1.99	0.62
1:J:505:ARG:HG3	1:J:510:GLN:NE2	2.14	0.62
1:J:542:MET:CE	1:J:601:PHE:HA	2.29	0.62
1:M:304:GLU:C	1:M:305:ILE:HG12	2.24	0.62
1:M:876:THR:O	1:M:877:PRO:C	2.39	0.62
1:P:542:MET:HE3	1:P:601:PHE:HA	1.81	0.62
1:A:948:PRO:HG2	1:A:949:HIS:CE1	2.35	0.62
1:D:429:ASP:OD1	1:D:431:ARG:N	2.30	0.62
1:E:52:ARG:O	1:E:214:LEU:N	2.32	0.62
1:F:422:PRO:HG3	1:G:284:GLY:HA2	1.81	0.62
1:F:1020:TRP:HD1	1:F:1021:CYS:N	1.97	0.62
1:G:383:ASN:HD22	1:G:625:GLN:HA	1.63	0.62
1:H:139:THR:O	1:H:173:LEU:N	2.29	0.62
1:J:30:HIS:ND1	1:J:31:PRO:O	2.29	0.62
1:L:147:ASN:HA	1:L:165:SER:HB3	1.82	0.62
1:M:386:ALA:CB	1:M:408:TYR:HB2	2.29	0.62
1:M:890:GLN:O	1:M:891:VAL:HG23	1.99	0.62
1:N:134:LEU:N	1:N:134:LEU:HD23	2.13	0.62
1:N:334:GLU:OE1	1:N:336:ARG:NH1	2.32	0.62
1:N:429:ASP:OD2	1:N:431:ARG:NH2	2.32	0.62
1:O:14:ARG:NH1	1:O:16:TRP:HZ2	1.96	0.62
1:P:57:GLU:OE1	1:P:83:THR:HG21	1.99	0.62
1:P:778:THR:HG23	1:P:779:PRO:HD2	1.81	0.62
1:P:870:VAL:HG12	1:P:871:GLU:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:TRP:O	1:A:183:ARG:NH1	2.30	0.62
1:C:905:ASN:HB2	1:C:910:LEU:HB3	1.80	0.62
1:D:783:GLN:NE2	3:D:1287:HOH:O	2.29	0.62
1:E:139:THR:HG21	1:E:177:LEU:CD1	2.29	0.62
1:E:601:PHE:CE2	1:E:795:VAL:HG12	2.34	0.62
1:E:1012:GLY:C	1:E:1013:ARG:HG3	2.25	0.62
1:F:651:LEU:HD12	1:F:668:VAL:O	2.00	0.62
1:H:133:TRP:C	1:H:134:LEU:HD23	2.23	0.62
1:H:166:ARG:HG2	1:H:414:ASN:CG	2.24	0.62
1:H:436:MET:HE3	1:H:467:ASN:ND2	2.13	0.62
1:H:708:TRP:CE3	1:H:709:SER:HB3	2.35	0.62
1:I:189:LEU:HD23	1:I:189:LEU:N	2.14	0.62
1:J:333:ARG:NH1	1:J:451:PRO:O	2.32	0.62
1:M:108:THR:HG22	1:M:109:VAL:N	2.14	0.62
1:N:367:MET:HE2	1:N:372:MET:HG2	1.82	0.62
1:N:784:PHE:HA	1:N:881:ARG:O	1.98	0.62
1:N:881:ARG:NH1	1:N:987:ASP:OD2	2.28	0.62
1:N:917:ARG:NH2	1:N:943:GLU:OE2	2.31	0.62
1:P:342:LEU:C	1:P:343:LEU:HD23	2.25	0.62
1:P:923:SER:O	1:P:925:MET:N	2.33	0.62
1:C:334:GLU:OE1	1:C:336:ARG:NH1	2.31	0.62
1:E:424:ASN:HB2	1:H:279:ILE:HD11	1.82	0.62
1:E:789:LEU:CD1	1:E:993:ILE:HG22	2.29	0.62
1:F:38:ASN:HD21	1:F:41:GLU:H	1.48	0.62
1:F:759:ASN:OD1	1:F:761:GLN:N	2.32	0.62
1:K:946:TYR:CE2	1:K:982:THR:HG21	2.34	0.62
1:K:959:ILE:HD12	1:K:984:LEU:CD1	2.29	0.62
1:M:10:VAL:HB	1:M:11:LEU:HD23	1.81	0.62
1:M:353:GLY:O	1:M:566:PHE:HA	1.98	0.62
1:N:36:TRP:CG	1:N:42:ALA:HB2	2.34	0.62
1:P:310:ARG:HG3	1:P:328:CYS:O	1.99	0.62
1:P:645:ARG:NH1	1:P:646:HIS:O	2.32	0.62
1:A:262:GLN:HE22	1:A:299:LYS:HD2	1.64	0.62
1:A:759:ASN:OD1	1:A:761:GLN:N	2.28	0.62
1:C:881:ARG:HD3	1:C:987:ASP:OD1	2.00	0.62
1:D:561:ARG:HB2	3:D:1212:HOH:O	1.99	0.62
1:E:833:ALA:HB1	1:E:858:ILE:O	2.00	0.62
1:F:130:ASP:OD1	1:F:132:SER:N	2.32	0.62
1:G:246:MET:C	1:G:246:MET:HE3	2.24	0.62
1:G:698:VAL:HG22	1:G:720:TRP:CZ3	2.35	0.62
1:H:246:MET:HG2	1:H:274:PHE:CZ	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:259:SER:HA	1:K:268:ALA:O	2.00	0.62
1:K:272:ALA:HB1	1:K:273:PRO:HD2	1.81	0.62
1:L:129:VAL:HG21	1:L:177:LEU:CD1	2.30	0.62
1:P:658:LEU:O	1:P:661:LYS:N	2.30	0.62
1:A:100:TYR:CE1	1:A:602:CYS:HB3	2.35	0.62
1:B:134:LEU:HD23	1:B:134:LEU:N	2.14	0.62
1:B:892:ALA:HB3	1:B:946:TYR:CD1	2.35	0.62
1:B:893:GLU:OE1	1:B:893:GLU:HA	2.00	0.62
1:C:438:GLU:O	1:C:442:ARG:HG3	2.00	0.62
1:D:368:ASP:OD1	1:D:370:GLN:HB2	1.99	0.62
1:D:427:THR:HG22	1:D:436:MET:CE	2.30	0.62
1:D:440:VAL:O	1:D:444:VAL:HG23	2.00	0.62
1:E:63:PHE:CB	1:E:64:PRO:HD2	2.26	0.62
1:E:672:VAL:HG13	1:E:678:GLN:HB2	1.81	0.62
1:G:200:GLN:HG2	1:G:391:HIS:HB2	1.81	0.62
1:G:249:GLU:OE1	1:G:251:ARG:NH2	2.33	0.62
1:G:656:VAL:HB	1:G:664:ALA:HB3	1.82	0.62
1:H:59:ARG:CZ	1:H:81:ALA:HB3	2.30	0.62
1:H:60:PHE:HB3	1:H:84:VAL:CG2	2.30	0.62
1:H:548:GLY:O	1:H:549:PHE:C	2.43	0.62
1:I:285:TYR:CG	1:I:288:ARG:HD2	2.35	0.62
1:I:395:HIS:CE1	1:I:397:LEU:HB3	2.35	0.62
1:J:59:ARG:HA	1:J:82:ASP:O	1.99	0.62
1:J:595:THR:HG23	1:J:596:PRO:HA	1.82	0.62
1:K:441:THR:HG22	1:K:474:TRP:CZ2	2.34	0.62
1:K:673:ALA:O	1:K:674:PRO:C	2.43	0.62
1:L:192:SER:O	1:L:195:SER:HB2	1.99	0.62
1:L:347:LYS:HB2	1:L:643:LEU:HD13	1.82	0.62
1:M:334:GLU:OE2	1:M:336:ARG:HD3	2.00	0.62
1:M:550:ALA:HA	1:M:623:GLN:OE1	1.99	0.62
1:M:627:PHE:O	1:M:628:GLN:NE2	2.33	0.62
1:N:147:ASN:HA	1:N:165:SER:HB3	1.82	0.62
1:N:180:GLY:O	1:N:182:ASN:ND2	2.32	0.62
1:N:600:GLN:NE2	1:N:790:ASP:OD1	2.32	0.62
1:N:767:GLN:OE1	1:N:768:MET:N	2.30	0.62
1:O:792:ASP:O	1:O:807:VAL:HG12	2.00	0.62
1:P:572:ASP:HB3	1:P:603:MET:CG	2.30	0.62
1:P:620:ALA:O	1:P:621:LYS:C	2.40	0.62
1:A:388:ARG:O	1:A:390:SER:N	2.33	0.62
1:B:460:ASN:ND2	1:B:461:GLU:HG2	2.14	0.62
1:B:629:PHE:CD1	1:B:718:GLN:HB2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:655:MET:HG3	1:B:656:VAL:N	2.13	0.62
1:C:934:GLU:HG3	1:C:935:ASN:N	2.12	0.62
1:D:765:LEU:HD13	1:D:864:MET:HE1	1.82	0.62
1:D:859:ASP:OD1	1:D:861:SER:HB2	2.00	0.62
1:F:300:LEU:O	1:F:307:ASN:HB2	2.00	0.62
1:G:73:TRP:O	1:G:183:ARG:NH1	2.30	0.62
1:H:210:ARG:HH11	1:H:395:HIS:N	1.97	0.62
1:H:719:GLN:N	3:H:1248:HOH:O	2.31	0.62
1:I:388:ARG:NH2	1:I:460:ASN:OD1	2.33	0.62
1:I:1005:ALA:O	1:I:1006:GLU:C	2.42	0.62
1:J:246:MET:HG2	1:J:274:PHE:CE2	2.35	0.62
1:J:424:ASN:ND2	1:J:464:HIS:O	2.30	0.62
1:J:974:HIS:C	1:J:975:LEU:HD23	2.25	0.62
1:L:694:LEU:HD12	1:L:695:TRP:N	2.15	0.62
1:L:836:ILE:HG22	1:L:837:THR:N	2.15	0.62
1:M:422:PRO:HB3	1:P:280:ASP:OD1	1.99	0.62
1:M:630:ARG:HB2	1:M:637:GLU:HB3	1.82	0.62
1:M:749:ILE:CD1	1:M:834:VAL:HG11	2.30	0.62
1:N:673:ALA:O	1:N:674:PRO:C	2.42	0.62
1:P:285:TYR:HB3	1:P:288:ARG:HB2	1.82	0.62
1:P:742:THR:CG2	1:P:743:SER:H	2.09	0.62
1:A:77:ASP:C	1:A:78:LEU:HD23	2.25	0.62
1:A:300:LEU:O	1:A:307:ASN:HB2	2.00	0.62
1:B:173:LEU:O	1:B:176:PHE:N	2.30	0.62
1:B:373:VAL:HG12	1:B:377:LEU:CD1	2.30	0.62
1:C:166:ARG:CG	1:C:392:TYR:HB2	2.30	0.62
1:C:354:VAL:CG1	1:C:379:MET:HE2	2.30	0.62
1:E:154:CYS:N	1:E:157:ARG:O	2.30	0.62
1:G:147:ASN:HB2	1:G:209:PHE:HE1	1.65	0.62
1:H:37:ARG:HH11	1:H:37:ARG:HG3	1.64	0.62
1:H:60:PHE:HB3	1:H:84:VAL:HG21	1.81	0.62
1:H:467:ASN:O	1:H:471:LEU:HD12	1.99	0.62
1:I:231:PHE:CD2	1:I:238:ALA:HB2	2.35	0.62
1:J:578:TYR:HA	1:J:583:ASN:O	1.99	0.62
1:J:689:GLU:O	1:J:690:SER:C	2.42	0.62
1:K:141:ILE:HD13	1:K:143:PHE:CE1	2.35	0.62
1:K:166:ARG:HG3	1:K:392:TYR:HB2	1.82	0.62
1:K:292:ARG:C	1:K:293:LEU:HD23	2.25	0.62
1:K:896:ASN:ND2	1:K:919:ASP:HB2	2.15	0.62
1:M:12:GLN:HG2	1:P:4:THR:HG21	1.82	0.62
1:N:504:ALA:HB3	1:N:535:LEU:HD21	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:598:ASP:O	1:N:601:PHE:HB2	1.99	0.62
1:O:822:LEU:HD12	1:O:824:GLN:N	2.15	0.62
1:P:257:THR:HA	1:P:270:GLY:O	2.00	0.62
1:P:544:ASN:HB3	1:P:789:LEU:CD2	2.30	0.62
1:B:934:GLU:HG3	1:B:935:ASN:N	2.12	0.61
1:C:708:TRP:CE3	1:C:709:SER:HB3	2.34	0.61
1:E:100:TYR:CZ	1:E:602:CYS:HB3	2.34	0.61
1:G:145:GLY:HA3	1:G:210:ARG:HG3	1.82	0.61
1:H:210:ARG:NH1	1:H:395:HIS:N	2.48	0.61
1:I:418:HIS:O	1:L:282:ARG:HD3	1.99	0.61
1:I:474:TRP:CZ2	1:I:478:VAL:HG21	2.35	0.61
1:J:937:LEU:C	1:J:938:ARG:HG2	2.23	0.61
1:K:778:THR:CG2	1:K:779:PRO:HD2	2.30	0.61
1:K:861:SER:HB3	1:K:863:GLN:HG3	1.81	0.61
1:L:115:PRO:HG2	1:L:191:TRP:HD1	1.65	0.61
1:L:814:GLY:HA3	1:L:844:HIS:CD2	2.35	0.61
1:M:653:HIS:HD2	1:M:667:GLU:HB3	1.65	0.61
1:N:130:ASP:OD1	1:N:132:SER:N	2.29	0.61
1:P:129:VAL:HG23	1:P:182:ASN:ND2	2.14	0.61
1:P:276:GLY:N	1:P:285:TYR:O	2.30	0.61
1:A:133:TRP:C	1:A:134:LEU:HD23	2.24	0.61
1:A:251:ARG:HB3	1:A:253:TYR:HE1	1.63	0.61
1:B:73:TRP:O	1:B:183:ARG:NH1	2.32	0.61
1:B:241:GLU:HG3	1:B:292:ARG:HG2	1.80	0.61
1:E:54:LEU:O	1:E:58:TRP:NE1	2.29	0.61
1:E:356:ARG:HH11	1:E:356:ARG:CG	2.13	0.61
1:E:703:PRO:O	1:E:711:ALA:HB1	1.99	0.61
1:F:737:ILE:HD13	1:F:831:ALA:O	1.99	0.61
1:G:27:LEU:CD1	1:G:140:ARG:HD3	2.30	0.61
1:H:460:ASN:O	1:H:461:GLU:C	2.42	0.61
1:I:213:SER:O	1:I:214:LEU:HD23	2.00	0.61
1:I:315:LEU:O	1:I:323:ILE:HB	2.00	0.61
1:I:654:TRP:NE1	1:I:666:GLY:HA3	2.15	0.61
1:J:742:THR:HG22	1:J:743:SER:N	2.15	0.61
1:K:251:ARG:HB3	1:K:253:TYR:CE1	2.35	0.61
1:L:413:ALA:HA	1:L:443:MET:HE2	1.80	0.61
1:M:130:ASP:O	1:M:131:GLU:C	2.41	0.61
1:N:14:ARG:NH1	1:N:16:TRP:HZ2	1.98	0.61
1:O:441:THR:HG22	1:O:474:TRP:CZ3	2.35	0.61
1:O:796:SER:OG	1:O:802:ASP:N	2.29	0.61
1:P:103:VAL:HG12	1:P:104:THR:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:438:GLU:O	1:P:442:ARG:HG3	2.01	0.61
1:A:78:LEU:HB3	1:A:79:PRO:HD2	1.81	0.61
1:A:440:VAL:HG11	1:A:475:ILE:HD11	1.82	0.61
1:B:7:LEU:HB2	1:B:71:GLU:OE2	2.00	0.61
1:C:354:VAL:HG11	1:C:379:MET:HE2	1.79	0.61
1:E:114:VAL:HG13	1:E:115:PRO:CD	2.28	0.61
1:E:522:LYS:O	1:E:523:TRP:C	2.43	0.61
1:E:870:VAL:HG12	1:E:871:GLU:N	2.14	0.61
1:F:102:ASN:ND2	1:F:201:ASP:HB2	2.14	0.61
1:F:251:ARG:HB3	1:F:253:TYR:CE1	2.35	0.61
1:F:768:MET:HG3	1:F:769:TRP:N	2.15	0.61
1:F:883:GLY:HA3	1:F:987:ASP:HA	1.82	0.61
1:H:775:GLN:C	1:H:776:LEU:HD23	2.25	0.61
1:I:307:ASN:O	1:I:308:LEU:HD23	2.00	0.61
1:J:360:HIS:CE1	1:J:362:LEU:HB2	2.35	0.61
1:K:50:GLN:NE2	1:K:50:GLN:N	2.48	0.61
1:L:103:VAL:HG12	1:L:104:THR:N	2.15	0.61
1:L:867:THR:HG22	3:L:1216:HOH:O	2.00	0.61
1:M:409:VAL:HG12	1:M:410:VAL:O	2.00	0.61
1:M:433:LEU:HB3	1:M:434:PRO:HD3	1.81	0.61
1:M:894:ARG:HH21	1:M:921:PRO:HD3	1.64	0.61
1:N:78:LEU:HB3	1:N:79:PRO:HD2	1.82	0.61
1:O:84:VAL:HG12	1:O:85:VAL:N	2.15	0.61
1:O:340:GLY:O	1:O:341:LEU:HD23	2.01	0.61
1:P:173:LEU:HA	1:P:176:PHE:CD1	2.35	0.61
1:P:648:ASP:N	1:P:648:ASP:OD1	2.33	0.61
1:A:5:ASP:OD2	1:A:157:ARG:HG2	2.01	0.61
1:A:703:PRO:O	1:A:711:ALA:HB1	2.01	0.61
1:B:40:GLU:CD	1:B:43:ARG:HH12	2.09	0.61
1:B:372:MET:HG2	1:B:398:TRP:CE3	2.35	0.61
1:B:895:VAL:O	1:B:919:ASP:HA	2.00	0.61
1:C:133:TRP:C	1:C:134:LEU:HD23	2.25	0.61
1:C:279:ILE:HD13	1:C:283:GLY:O	2.00	0.61
1:D:578:TYR:HA	1:D:583:ASN:O	1.99	0.61
1:E:920:LEU:HB3	1:E:921:PRO:HD2	1.82	0.61
1:F:645:ARG:HH12	1:F:648:ASP:H	1.49	0.61
1:F:856:TYR:HD2	1:F:864:MET:HE2	1.63	0.61
1:F:975:LEU:N	1:F:975:LEU:HD23	2.12	0.61
1:G:595:THR:HG23	1:G:596:PRO:HA	1.82	0.61
1:H:360:HIS:HB3	1:H:363:HIS:HB2	1.82	0.61
1:K:139:THR:O	1:K:173:LEU:N	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:658:LEU:HD12	1:K:659:ASP:H	1.64	0.61
1:L:653:HIS:NE2	1:L:667:GLU:OE2	2.29	0.61
1:M:6:SER:OG	1:M:9:VAL:N	2.29	0.61
1:M:246:MET:HG2	1:M:274:PHE:CE2	2.35	0.61
1:M:358:GLU:HB3	1:M:367:MET:CG	2.30	0.61
1:N:906:TYR:OH	1:N:935:ASN:HA	2.00	0.61
1:O:424:ASN:O	1:O:427:THR:N	2.32	0.61
1:A:232:ASN:N	1:A:232:ASN:OD1	2.32	0.61
1:A:571:VAL:HG12	1:A:609:ALA:HA	1.82	0.61
1:D:189:LEU:N	1:D:189:LEU:HD23	2.15	0.61
1:D:928:PRO:HB2	1:D:973:ARG:HH11	1.65	0.61
1:E:615:PRO:HA	1:E:903:GLN:OE1	2.01	0.61
1:E:631:LEU:HD12	1:E:635:THR:O	2.01	0.61
1:E:778:THR:CG2	1:E:887:GLN:H	2.13	0.61
1:G:856:TYR:CD2	1:G:864:MET:HE2	2.35	0.61
1:J:763:GLY:O	1:J:838:THR:HG21	2.00	0.61
1:L:115:PRO:HG2	1:L:191:TRP:CD1	2.35	0.61
1:L:578:TYR:HA	1:L:583:ASN:O	2.00	0.61
1:M:775:GLN:O	1:M:776:LEU:HD23	2.00	0.61
1:O:822:LEU:CD1	1:O:824:GLN:H	2.11	0.61
1:P:23:GLN:HB3	1:P:26:ARG:CZ	2.31	0.61
1:P:893:GLU:OE1	1:P:893:GLU:HA	2.00	0.61
1:A:653:HIS:NE2	1:A:667:GLU:OE2	2.31	0.61
1:A:946:TYR:CE2	1:A:982:THR:HG21	2.35	0.61
1:B:210:ARG:HH11	1:B:395:HIS:HA	1.65	0.61
1:B:352:ARG:NH2	1:B:641:GLU:OE1	2.33	0.61
1:C:409:VAL:HG12	1:C:410:VAL:N	2.15	0.61
1:F:763:GLY:HA3	1:F:822:LEU:HD22	1.82	0.61
1:F:1004:SER:HB2	1:F:1006:GLU:OE2	2.01	0.61
1:H:287:ASP:OD1	1:H:287:ASP:N	2.29	0.61
1:H:608:PHE:N	1:H:612:THR:O	2.25	0.61
1:J:913:ALA:O	3:J:1252:HOH:O	2.16	0.61
1:J:917:ARG:NH2	1:J:943:GLU:OE2	2.33	0.61
1:K:65:ALA:HB1	1:K:66:PRO:HD2	1.81	0.61
1:K:651:LEU:HD12	1:K:668:VAL:O	2.00	0.61
1:K:1020:TRP:HD1	1:K:1021:CYS:N	1.98	0.61
1:L:429:ASP:OD1	1:L:431:ARG:N	2.33	0.61
1:M:166:ARG:CB	1:M:414:ASN:HD22	2.13	0.61
1:M:524:LEU:HD13	1:M:561:ARG:HB2	1.82	0.61
1:M:740:LEU:HD12	1:M:748:CYS:O	2.00	0.61
1:M:968:MET:HG3	1:M:968:MET:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:316:HIS:HB2	1:N:321:THR:O	2.01	0.61
1:O:241:GLU:HG3	1:O:292:ARG:HG2	1.82	0.61
1:A:682:LEU:HB3	1:A:683:PRO:HD2	1.83	0.61
1:B:382:ASN:OD1	1:B:617:LEU:HG	2.01	0.61
1:B:627:PHE:O	1:B:628:GLN:NE2	2.33	0.61
1:D:460:ASN:ND2	1:D:461:GLU:HG3	2.15	0.61
1:E:3:ILE:O	1:E:9:VAL:HG21	2.01	0.61
1:E:123:TYR:CD1	1:E:208:ILE:HD12	2.35	0.61
1:E:188:VAL:C	1:E:189:LEU:HD23	2.26	0.61
1:E:415:ILE:HD13	1:E:436:MET:HB3	1.82	0.61
1:E:693:GLN:HG2	1:E:721:ARG:CD	2.31	0.61
1:F:989:PHE:CE2	1:F:1014:TYR:HB3	2.35	0.61
1:G:204:ARG:HD3	1:G:204:ARG:N	2.15	0.61
1:J:110:ASN:N	1:J:111:PRO:HD3	2.15	0.61
1:K:382:ASN:CB	1:K:617:LEU:HD11	2.31	0.61
1:K:701:VAL:HA	1:K:713:HIS:O	2.00	0.61
1:L:281:GLU:N	1:L:281:GLU:OE1	2.34	0.61
1:L:870:VAL:HG12	1:L:871:GLU:N	2.14	0.61
1:M:227:VAL:HG13	1:M:240:LEU:CD1	2.27	0.61
1:M:262:GLN:HB2	1:M:309:TYR:CE1	2.35	0.61
1:M:473:ARG:O	1:M:476:LYS:HB2	2.00	0.61
1:N:673:ALA:HB1	1:N:674:PRO:HD2	1.82	0.61
1:P:106:PRO:HB2	1:P:191:TRP:CH2	2.36	0.61
1:P:946:TYR:HE2	1:P:982:THR:HG21	1.66	0.61
1:A:573:GLN:HB2	1:A:602:CYS:O	2.01	0.61
1:C:7:LEU:N	1:C:71:GLU:OE2	2.34	0.61
1:C:844:HIS:CE1	1:C:845:GLN:HG3	2.36	0.61
1:D:433:LEU:HD12	1:D:433:LEU:C	2.26	0.61
1:D:515:VAL:HB	3:D:1275:HOH:O	1.99	0.61
1:E:84:VAL:HG12	1:E:85:VAL:N	2.15	0.61
1:E:764:PHE:O	1:E:765:LEU:C	2.43	0.61
1:F:571:VAL:HG13	1:F:607:VAL:CG2	2.30	0.61
1:H:30:HIS:HB2	1:H:31:PRO:HD2	1.83	0.61
1:H:653:HIS:HE2	1:H:667:GLU:CD	2.09	0.61
1:I:246:MET:HB3	1:I:274:PHE:CZ	2.35	0.61
1:I:652:LEU:O	1:I:668:VAL:N	2.29	0.61
1:J:429:ASP:OD2	1:J:431:ARG:NH1	2.34	0.61
1:J:930:VAL:HA	1:J:973:ARG:HD3	1.81	0.61
1:L:73:TRP:O	1:L:183:ARG:NH2	2.29	0.61
1:L:123:TYR:HD1	1:L:123:TYR:H	1.48	0.61
1:L:249:GLU:OE2	1:L:251:ARG:NH2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:400:THR:O	1:L:404:ARG:HD2	1.99	0.61
1:M:11:LEU:HD23	1:M:11:LEU:N	2.16	0.61
1:M:46:ARG:HB3	1:M:47:PRO:HD2	1.83	0.61
1:M:706:THR:N	1:M:709:SER:O	2.33	0.61
1:O:27:LEU:HD12	1:O:140:ARG:NH1	2.15	0.61
1:O:44:THR:O	1:O:45:ASP:C	2.43	0.61
1:O:138:GLN:N	1:O:217:LYS:O	2.29	0.61
1:O:531:ARG:O	1:O:561:ARG:NH1	2.28	0.61
1:O:579:ASP:OD1	1:O:583:ASN:N	2.29	0.61
1:P:129:VAL:CG2	1:P:182:ASN:HD22	2.14	0.61
1:A:991:MET:HE3	1:A:1003:VAL:HG21	1.81	0.61
1:B:474:TRP:HZ2	1:C:430:PRO:HG3	1.66	0.61
1:D:246:MET:HE3	1:D:247:CYS:C	2.26	0.61
1:D:433:LEU:O	1:D:437:SER:HB3	2.00	0.61
1:E:41:GLU:O	1:E:44:THR:N	2.33	0.61
1:E:115:PRO:HG2	1:E:191:TRP:CD1	2.36	0.61
1:E:289:VAL:HG22	1:E:291:LEU:CD1	2.31	0.61
1:F:1009:LEU:N	1:F:1009:LEU:HD23	2.16	0.61
1:H:654:TRP:NE1	1:H:666:GLY:HA3	2.16	0.61
1:H:814:GLY:O	1:H:815:HIS:C	2.42	0.61
1:I:44:THR:O	1:I:46:ARG:N	2.34	0.61
1:I:129:VAL:HG23	1:I:182:ASN:HD22	1.66	0.61
1:I:232:ASN:ND2	1:I:234:ASP:OD1	2.33	0.61
1:I:662:PRO:C	1:I:663:LEU:HD23	2.26	0.61
1:J:202:MET:HE3	1:J:357:HIS:HD2	1.65	0.61
1:J:388:ARG:NH1	1:J:536:CYS:HB2	2.15	0.61
1:K:572:ASP:OD1	1:K:603:MET:HB3	2.01	0.61
1:K:696:LEU:HD12	1:K:697:THR:H	1.66	0.61
1:L:492:ASP:HB3	1:L:499:ILE:HG23	1.82	0.61
1:L:656:VAL:N	1:L:664:ALA:O	2.29	0.61
1:M:622:HIS:HB2	1:M:717:TRP:CZ2	2.35	0.61
1:N:708:TRP:CE3	1:N:709:SER:HB3	2.35	0.61
1:O:484:VAL:O	1:O:497:ASP:N	2.27	0.61
1:O:698:VAL:CG2	1:O:718:GLN:HB3	2.30	0.61
1:P:30:HIS:HB2	1:P:31:PRO:HD2	1.82	0.61
1:B:662:PRO:C	1:B:663:LEU:HD23	2.24	0.61
1:C:210:ARG:HH12	1:C:395:HIS:N	1.98	0.61
1:D:638:VAL:O	1:D:677:LYS:HA	2.01	0.61
1:E:5:ASP:OD1	1:E:5:ASP:N	2.30	0.61
1:E:789:LEU:O	1:E:792:ASP:HB2	2.01	0.61
1:E:796:SER:HB2	1:E:802:ASP:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:571:VAL:CG1	1:F:607:VAL:HG23	2.31	0.61
1:G:227:VAL:HG12	1:G:228:ALA:N	2.15	0.61
1:G:322:LEU:HD23	1:G:324:GLU:N	2.16	0.61
1:G:850:PHE:CD1	1:G:872:VAL:HG13	2.36	0.61
1:G:907:PRO:HA	1:G:910:LEU:CD2	2.31	0.61
1:H:236:SER:C	1:H:237:ARG:HG2	2.25	0.61
1:H:750:GLU:HG3	1:H:755:ARG:HG2	1.82	0.61
1:I:836:ILE:HD13	1:I:836:ILE:N	2.16	0.61
1:K:579:ASP:OD1	1:K:583:ASN:N	2.31	0.61
1:K:896:ASN:HD22	1:K:919:ASP:HB2	1.65	0.61
1:M:129:VAL:HG12	1:M:130:ASP:N	2.16	0.61
1:N:178:ARG:NH1	1:N:181:GLU:O	2.29	0.61
1:N:474:TRP:CE2	1:N:478:VAL:HG21	2.36	0.61
1:O:465:GLY:O	1:O:468:HIS:HB2	2.00	0.61
1:O:654:TRP:CZ2	1:O:666:GLY:HA3	2.36	0.61
1:P:105:TYR:CE1	1:P:199:ASP:HB2	2.35	0.61
1:P:636:ILE:N	1:P:680:ILE:O	2.31	0.61
1:P:746:ASP:HA	1:P:760:ARG:HG3	1.82	0.61
1:C:645:ARG:NH2	1:C:650:GLU:OE2	2.34	0.60
1:D:43:ARG:HH22	1:D:264:GLU:HG2	1.66	0.60
1:D:928:PRO:HB2	1:D:973:ARG:NH1	2.15	0.60
1:E:73:TRP:O	1:E:183:ARG:NH1	2.30	0.60
1:E:378:LEU:HB3	1:E:570:TRP:CH2	2.36	0.60
1:E:638:VAL:O	1:E:678:GLN:N	2.32	0.60
1:F:753:ASN:OD1	1:F:753:ASN:N	2.29	0.60
1:H:310:ARG:HG3	1:H:328:CYS:O	2.01	0.60
1:H:438:GLU:O	1:H:442:ARG:HG3	2.00	0.60
1:H:749:ILE:CD1	1:H:834:VAL:HG11	2.31	0.60
1:J:38:ASN:HB3	1:J:41:GLU:OE1	2.00	0.60
1:J:919:ASP:O	1:J:920:LEU:HD23	1.99	0.60
1:K:761:GLN:O	1:K:822:LEU:HD23	2.01	0.60
1:L:500:CYS:HB2	1:L:536:CYS:HB3	1.84	0.60
1:M:454:ILE:HG13	1:M:455:ILE:HG13	1.82	0.60
1:M:759:ASN:OD1	1:M:761:GLN:HB2	2.01	0.60
1:N:90:TRP:HE1	1:N:96:ASP:CG	2.08	0.60
1:N:937:LEU:O	1:N:938:ARG:HG2	2.01	0.60
1:P:36:TRP:CD2	1:P:42:ALA:HB2	2.36	0.60
1:P:742:THR:HG22	1:P:743:SER:N	2.10	0.60
1:A:893:GLU:OE1	1:A:893:GLU:HA	2.01	0.60
1:C:668:VAL:HG11	1:C:680:ILE:HD13	1.83	0.60
1:D:810:TRP:HH2	1:D:991:MET:HE2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:34:ALA:HA	1:E:51:LEU:CD2	2.31	0.60
1:E:581:ASN:HB2	1:E:583:ASN:ND2	2.16	0.60
1:E:668:VAL:CG1	1:E:669:PRO:HD2	2.29	0.60
1:H:360:HIS:CG	1:H:361:PRO:HD2	2.35	0.60
1:H:672:VAL:CG1	1:H:678:GLN:HB2	2.31	0.60
1:I:427:THR:HA	1:I:436:MET:CE	2.14	0.60
1:I:553:TRP:O	1:I:557:ARG:HG3	2.00	0.60
1:K:218:PRO:CG	1:K:324:GLU:HG3	2.31	0.60
1:L:440:VAL:HG11	1:L:475:ILE:HD11	1.83	0.60
1:L:701:VAL:HG22	1:L:714:ILE:HD13	1.83	0.60
1:M:258:VAL:HA	1:M:312:VAL:O	2.01	0.60
1:M:499:ILE:HG22	1:M:501:PRO:HD3	1.83	0.60
1:M:702:GLN:O	1:M:712:GLY:N	2.34	0.60
1:N:777:LEU:CD2	1:N:889:ALA:HB2	2.32	0.60
1:O:851:ILE:HD11	1:P:728:VAL:HG12	1.83	0.60
1:P:579:ASP:OD1	1:P:583:ASN:HB2	2.01	0.60
1:A:599:ARG:HD2	1:A:600:GLN:OE1	2.01	0.60
1:E:217:LYS:HD3	1:E:324:GLU:OE1	2.02	0.60
1:E:371:THR:O	1:E:374:GLN:HB3	2.01	0.60
1:F:30:HIS:HB2	1:F:31:PRO:HD2	1.84	0.60
1:F:788:PRO:HD2	1:F:968:MET:HB2	1.81	0.60
1:H:3:ILE:O	1:H:9:VAL:HG21	2.01	0.60
1:H:91:GLN:HG2	1:H:190:ARG:HH21	1.66	0.60
1:H:102:ASN:OD1	1:H:103:VAL:HG23	2.01	0.60
1:I:131:GLU:O	1:I:134:LEU:N	2.28	0.60
1:I:142:ILE:HG23	1:I:170:GLU:HG2	1.83	0.60
1:I:927:THR:HG21	1:I:929:TYR:CZ	2.35	0.60
1:M:397:LEU:HD12	1:M:397:LEU:C	2.27	0.60
1:M:416:GLU:OE2	1:M:418:HIS:HB2	2.02	0.60
1:N:685:LEU:HB3	1:N:686:PRO:HD2	1.82	0.60
1:N:759:ASN:OD1	1:N:761:GLN:N	2.33	0.60
1:N:763:GLY:HA3	1:N:822:LEU:HD22	1.83	0.60
1:N:782:ASP:OD1	1:N:782:ASP:N	2.30	0.60
1:N:801:ILE:O	1:N:803:PRO:HD3	2.01	0.60
1:O:132:SER:OG	1:O:133:TRP:N	2.31	0.60
1:P:332:PHE:N	3:P:1212:HOH:O	2.29	0.60
1:P:376:ILE:HA	1:P:379:MET:HG3	1.83	0.60
1:P:550:ALA:HB2	1:P:623:GLN:CD	2.26	0.60
1:A:632:SER:O	1:A:635:THR:HB	2.00	0.60
1:B:653:HIS:HD2	1:B:667:GLU:HG2	1.67	0.60
1:B:697:THR:OG1	1:B:719:GLN:NE2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:ARG:NH2	1:C:218:PRO:HD3	2.17	0.60
1:C:930:VAL:HA	1:C:973:ARG:HD3	1.83	0.60
1:D:246:MET:HE3	1:D:247:CYS:CA	2.31	0.60
1:D:917:ARG:HH22	1:D:943:GLU:CD	2.10	0.60
1:E:114:VAL:HG22	1:E:191:TRP:HB3	1.83	0.60
1:E:142:ILE:HG23	1:E:170:GLU:HG2	1.84	0.60
1:E:166:ARG:HB2	1:E:414:ASN:ND2	2.16	0.60
1:E:920:LEU:HD12	1:E:925:MET:SD	2.41	0.60
1:F:422:PRO:HG3	1:G:284:GLY:CA	2.30	0.60
1:F:658:LEU:O	1:F:659:ASP:C	2.43	0.60
1:H:14:ARG:HG2	1:H:14:ARG:NH1	2.16	0.60
1:H:257:THR:HA	1:H:270:GLY:O	2.01	0.60
1:H:336:ARG:NH2	1:H:338:GLU:OE1	2.30	0.60
1:J:60:PHE:HB3	1:J:84:VAL:CG2	2.31	0.60
1:J:166:ARG:HG2	1:J:392:TYR:CB	2.31	0.60
1:L:130:ASP:O	1:L:133:TRP:HB2	2.01	0.60
1:L:876:THR:OG1	1:L:877:PRO:HD2	2.01	0.60
1:M:439:ARG:HH11	1:M:439:ARG:CG	2.15	0.60
1:M:995:GLY:N	1:M:1002:SER:OG	2.31	0.60
1:N:137:GLY:HA2	1:N:219:THR:HG23	1.84	0.60
1:P:17:GLU:OE1	1:P:113:PHE:HA	2.01	0.60
1:A:768:MET:HG3	1:A:768:MET:O	1.98	0.60
1:C:52:ARG:NH2	1:C:128:ASN:O	2.32	0.60
1:D:254:LEU:O	1:D:255:ARG:HD3	2.01	0.60
1:E:224:ASP:OD1	1:E:225:PHE:N	2.34	0.60
1:E:599:ARG:NE	1:E:797:GLU:OE2	2.30	0.60
1:E:814:GLY:O	1:E:815:HIS:C	2.43	0.60
1:E:930:VAL:O	1:E:932:PRO:HD3	2.01	0.60
1:G:814:GLY:O	1:G:815:HIS:C	2.42	0.60
1:G:897:TRP:CZ3	1:G:918:TRP:HB2	2.36	0.60
1:H:84:VAL:HG12	1:H:85:VAL:N	2.16	0.60
1:H:240:LEU:HD12	1:H:241:GLU:H	1.64	0.60
1:H:456:TRP:HE1	1:H:482:ARG:HD2	1.65	0.60
1:I:549:PHE:CE2	1:I:620:ALA:HA	2.37	0.60
1:K:360:HIS:ND1	1:K:362:LEU:N	2.45	0.60
1:K:706:THR:OG1	1:K:709:SER:N	2.29	0.60
1:L:910:LEU:HD12	1:L:910:LEU:O	2.01	0.60
1:M:456:TRP:HZ2	1:M:482:ARG:NH1	1.98	0.60
1:M:917:ARG:NH2	1:M:943:GLU:OE2	2.34	0.60
1:N:262:GLN:HE22	1:N:299:LYS:HD3	1.65	0.60
1:N:777:LEU:CG	1:N:889:ALA:HB2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:78:LEU:HB3	1:P:79:PRO:HD2	1.82	0.60
1:P:639:THR:OG1	1:P:677:LYS:HE2	2.01	0.60
1:A:695:TRP:CE2	1:A:721:ARG:HG3	2.36	0.60
1:B:788:PRO:HG3	1:B:968:MET:HE3	1.83	0.60
1:C:389:CYS:HB3	1:C:394:ASN:ND2	2.17	0.60
1:D:14:ARG:NH1	1:D:16:TRP:HZ2	1.99	0.60
1:D:52:ARG:NH2	1:D:128:ASN:O	2.30	0.60
1:D:100:TYR:O	1:D:597:ASN:HA	2.01	0.60
1:D:141:ILE:HG12	1:D:213:SER:O	2.02	0.60
1:D:319:ASP:N	1:D:319:ASP:OD1	2.29	0.60
1:D:730:LEU:HD23	1:D:730:LEU:N	2.14	0.60
1:D:749:ILE:HD12	1:D:834:VAL:HG11	1.84	0.60
1:F:589:GLY:HA3	1:F:599:ARG:HA	1.84	0.60
1:H:34:ALA:HB3	1:H:36:TRP:CE3	2.37	0.60
1:H:152:LEU:HG	1:H:153:TRP:N	2.16	0.60
1:H:673:ALA:HB1	1:H:674:PRO:HD2	1.84	0.60
1:H:851:ILE:O	1:H:870:VAL:HA	2.01	0.60
1:I:439:ARG:HG2	1:I:439:ARG:HH11	1.67	0.60
1:I:678:GLN:O	1:I:679:LEU:HD23	2.02	0.60
1:J:131:GLU:O	1:J:132:SER:C	2.44	0.60
1:J:748:CYS:C	1:J:749:ILE:HG12	2.26	0.60
1:J:797:GLU:N	1:J:800:ARG:O	2.33	0.60
1:K:200:GLN:HG2	1:K:391:HIS:HB2	1.83	0.60
1:K:437:SER:HA	1:K:471:LEU:HD21	1.84	0.60
1:K:749:ILE:HD13	1:K:834:VAL:HG21	1.84	0.60
1:L:473:ARG:O	1:L:474:TRP:C	2.45	0.60
1:L:544:ASN:OD1	1:L:909:ARG:NH1	2.34	0.60
1:L:897:TRP:HD1	1:L:941:THR:CG2	2.15	0.60
1:M:502:MET:HB2	1:M:537:GLU:CB	2.25	0.60
1:M:540:HIS:CE1	1:M:999:TRP:HZ3	2.19	0.60
1:N:647:SER:HG	1:N:672:VAL:H	1.50	0.60
1:O:847:LYS:HG3	1:O:848:THR:N	2.15	0.60
1:P:59:ARG:NH2	1:P:81:ALA:O	2.35	0.60
1:P:260:LEU:N	1:P:268:ALA:O	2.33	0.60
1:P:706:THR:HG1	1:P:708:TRP:CD1	2.19	0.60
1:P:708:TRP:CZ3	1:P:709:SER:HB3	2.36	0.60
1:A:856:TYR:HB3	1:A:864:MET:HE2	1.83	0.60
1:D:949:HIS:CD2	1:D:1020:TRP:HE1	2.19	0.60
1:D:1011:ALA:HB3	1:D:1014:TYR:CZ	2.37	0.60
1:E:127:PHE:O	1:E:182:ASN:N	2.30	0.60
1:E:767:GLN:HG3	1:E:768:MET:N	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:869:ASP:OD1	1:E:1015:HIS:ND1	2.35	0.60
1:F:40:GLU:CG	1:F:43:ARG:HH12	2.14	0.60
1:H:356:ARG:HD2	1:H:379:MET:HE1	1.84	0.60
1:H:768:MET:HE1	1:H:1022:GLN:NE2	2.15	0.60
1:H:897:TRP:CZ3	1:H:925:MET:HE1	2.37	0.60
1:K:110:ASN:O	1:K:113:PHE:HB2	2.01	0.60
1:K:736:ALA:O	1:K:737:ILE:HG22	2.02	0.60
1:K:949:HIS:CD2	1:K:1020:TRP:HE1	2.12	0.60
1:M:149:ALA:O	1:M:150:PHE:HB3	2.02	0.60
1:M:559:TYR:CB	1:M:562:LEU:HD12	2.29	0.60
1:N:41:GLU:O	1:N:42:ALA:C	2.45	0.60
1:N:232:ASN:ND2	1:N:236:SER:HB2	2.08	0.60
1:N:287:ASP:CG	1:O:425:ARG:HH22	2.10	0.60
1:P:138:GLN:N	1:P:217:LYS:O	2.29	0.60
1:P:446:ARG:O	1:P:446:ARG:HG2	2.02	0.60
1:P:601:PHE:CE2	1:P:795:VAL:HG12	2.37	0.60
1:A:37:ARG:NH2	1:A:218:PRO:HD3	2.16	0.60
1:B:784:PHE:HA	1:B:881:ARG:O	2.02	0.60
1:D:141:ILE:HG13	1:D:214:LEU:CD2	2.32	0.60
1:D:246:MET:HE3	1:D:246:MET:C	2.26	0.60
1:D:316:HIS:HA	1:D:323:ILE:HD12	1.83	0.60
1:D:906:TYR:HB3	1:D:907:PRO:CD	2.32	0.60
1:E:304:GLU:HB3	1:E:645:ARG:HG2	1.84	0.60
1:E:418:HIS:O	1:H:282:ARG:HD3	2.02	0.60
1:E:502:MET:HB2	1:E:537:GLU:HB2	1.83	0.60
1:F:232:ASN:ND2	1:F:236:SER:OG	2.35	0.60
1:G:970:THR:CG2	1:G:975:LEU:HB2	2.32	0.60
1:K:894:ARG:NH2	1:K:921:PRO:HD3	2.17	0.60
1:L:322:LEU:HD23	1:L:322:LEU:C	2.27	0.60
1:N:890:GLN:HG3	1:N:891:VAL:N	2.17	0.60
1:O:230:ARG:O	1:O:238:ALA:HA	2.02	0.60
1:P:173:LEU:HA	1:P:176:PHE:HD1	1.67	0.60
1:P:261:TRP:CE3	1:P:266:GLN:HA	2.37	0.60
1:P:701:VAL:HG12	1:P:712:GLY:HA2	1.82	0.60
1:B:7:LEU:O	1:B:11:LEU:HG	2.02	0.60
1:B:86:VAL:HG13	1:B:87:PRO:HA	1.83	0.60
1:C:749:ILE:HD13	1:C:749:ILE:N	2.17	0.60
1:D:236:SER:C	1:D:237:ARG:HG2	2.26	0.60
1:F:308:LEU:HD13	1:F:329:ASP:HB3	1.84	0.60
1:F:843:GLN:HG2	1:F:848:THR:HA	1.84	0.60
1:G:433:LEU:HB3	1:G:434:PRO:HD3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:518:TRP:O	1:G:519:SER:C	2.39	0.60
1:G:597:ASN:ND2	1:G:599:ARG:H	1.99	0.60
1:H:658:LEU:HB2	1:H:663:LEU:HD11	1.81	0.60
1:I:37:ARG:HH21	1:I:218:PRO:HD3	1.66	0.60
1:I:870:VAL:HG12	1:I:871:GLU:N	2.17	0.60
1:J:427:THR:CA	1:J:436:MET:HE1	2.15	0.60
1:J:698:VAL:HG22	1:J:720:TRP:HZ3	1.65	0.60
1:K:436:MET:HE3	1:K:467:ASN:HD22	1.67	0.60
1:L:354:VAL:CG1	1:L:379:MET:HE2	2.31	0.60
1:L:444:VAL:O	1:L:448:ARG:HB3	2.01	0.60
1:M:66:PRO:C	1:M:68:ALA:H	2.09	0.60
1:M:748:CYS:C	1:M:749:ILE:HG12	2.26	0.60
1:O:35:SER:N	1:O:326:GLU:OE2	2.34	0.60
1:O:900:LEU:HD23	1:O:915:PHE:HA	1.82	0.60
1:P:353:GLY:O	1:P:566:PHE:HA	2.01	0.60
1:P:456:TRP:CZ2	1:P:482:ARG:HD2	2.36	0.60
1:B:868:VAL:HB	1:B:1016:TYR:CE1	2.37	0.60
1:E:460:ASN:ND2	1:E:461:GLU:HG3	2.17	0.60
1:F:167:LEU:CB	1:F:168:PRO:HD2	2.30	0.60
1:F:333:ARG:NH1	1:F:451:PRO:O	2.35	0.60
1:F:928:PRO:HB2	1:F:973:ARG:HH11	1.67	0.60
1:F:974:HIS:C	1:F:975:LEU:HD23	2.26	0.60
1:G:740:LEU:CG	1:G:741:THR:H	2.15	0.60
1:G:767:GLN:CD	1:G:768:MET:H	2.09	0.60
1:G:853:ARG:NH1	1:G:871:GLU:OE2	2.33	0.60
1:H:34:ALA:HB3	1:H:36:TRP:CZ3	2.36	0.60
1:H:577:LYS:NZ	1:H:591:ASP:O	2.29	0.60
1:I:902:PRO:O	1:I:938:ARG:NH1	2.35	0.60
1:J:502:MET:HE2	1:J:537:GLU:OE1	2.01	0.60
1:K:7:LEU:CD1	1:K:74:LEU:HD11	2.28	0.60
1:K:942:ARG:HA	1:K:953:GLY:O	2.00	0.60
1:L:786:ARG:N	3:L:1251:HOH:O	2.28	0.60
1:M:333:ARG:HH11	1:M:451:PRO:HA	1.66	0.60
1:N:5:ASP:OD2	1:N:157:ARG:HA	2.02	0.60
1:N:160:GLY:HA3	1:N:171:PHE:HE2	1.67	0.60
1:O:533:LEU:HD12	1:O:533:LEU:C	2.27	0.60
1:P:342:LEU:HD12	1:P:343:LEU:N	2.17	0.60
1:P:616:ALA:O	1:P:617:LEU:C	2.42	0.60
1:A:796:SER:OG	1:A:801:ILE:HA	2.01	0.59
1:B:524:LEU:O	1:B:561:ARG:NH2	2.29	0.59
1:C:65:ALA:HB1	1:C:66:PRO:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:211:ASP:N	1:D:211:ASP:OD1	2.31	0.59
1:D:250:LEU:O	1:D:251:ARG:HG2	2.02	0.59
1:F:730:LEU:N	1:F:730:LEU:HD23	2.17	0.59
1:G:54:LEU:O	1:G:58:TRP:NE1	2.29	0.59
1:G:131:GLU:O	1:G:134:LEU:N	2.29	0.59
1:G:427:THR:HG22	1:G:436:MET:SD	2.42	0.59
1:G:730:LEU:HB3	1:G:731:PRO:HD2	1.84	0.59
1:J:127:PHE:O	1:J:182:ASN:N	2.32	0.59
1:J:211:ASP:OD1	1:J:211:ASP:N	2.29	0.59
1:K:395:HIS:CE1	1:K:397:LEU:HB2	2.37	0.59
1:K:615:PRO:HB2	1:K:909:ARG:NH2	2.15	0.59
1:K:777:LEU:CG	1:K:889:ALA:HA	2.32	0.59
1:M:261:TRP:CE2	1:M:266:GLN:HG3	2.37	0.59
1:M:484:VAL:O	1:M:497:ASP:HB2	2.02	0.59
1:O:375:ASP:O	1:O:379:MET:HG3	2.02	0.59
1:O:638:VAL:O	1:O:677:LYS:HA	2.01	0.59
1:O:697:THR:OG1	1:O:719:GLN:HB2	2.01	0.59
1:P:323:ILE:HD12	1:P:323:ILE:N	2.16	0.59
1:P:355:ASN:HD22	1:P:566:PHE:HB3	1.65	0.59
1:P:746:ASP:O	1:P:760:ARG:HD2	2.02	0.59
1:A:388:ARG:NH2	1:A:460:ASN:OD1	2.36	0.59
1:B:577:LYS:O	1:B:584:PRO:HA	2.02	0.59
1:C:50:GLN:NE2	1:C:50:GLN:N	2.49	0.59
1:C:100:TYR:O	1:C:597:ASN:HA	2.02	0.59
1:C:317:THR:HG23	1:C:323:ILE:HD11	1.83	0.59
1:D:133:TRP:C	1:D:134:LEU:HD23	2.27	0.59
1:D:742:THR:HG22	1:D:743:SER:N	2.16	0.59
1:D:767:GLN:CD	1:D:774:LYS:HB3	2.27	0.59
1:E:77:ASP:O	1:E:78:LEU:HD23	2.02	0.59
1:E:289:VAL:HG22	1:E:291:LEU:HD11	1.85	0.59
1:F:202:MET:HE3	1:F:357:HIS:CD2	2.37	0.59
1:F:637:GLU:HG3	1:F:679:LEU:HD21	1.83	0.59
1:F:949:HIS:HD2	1:F:1020:TRP:NE1	1.96	0.59
1:G:555:ALA:O	1:G:556:PHE:C	2.39	0.59
1:G:738:PRO:HA	1:G:751:LEU:CD1	2.32	0.59
1:J:304:GLU:O	1:J:305:ILE:HG12	2.02	0.59
1:K:14:ARG:NH1	1:K:16:TRP:HZ2	1.99	0.59
1:K:257:THR:HA	1:K:270:GLY:O	2.02	0.59
1:K:303:ALA:HB1	1:K:406:GLY:O	2.03	0.59
1:K:877:PRO:O	1:K:878:HIS:C	2.43	0.59
1:K:921:PRO:O	1:K:922:LEU:C	2.44	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:41:GLU:O	1:L:42:ALA:C	2.43	0.59
1:M:6:SER:OG	1:M:9:VAL:HG23	2.02	0.59
1:N:620:ALA:O	1:N:621:LYS:C	2.44	0.59
1:O:69:VAL:HG12	1:O:70:PRO:N	2.17	0.59
1:O:391:HIS:HA	1:O:412:GLU:OE2	2.02	0.59
1:A:7:LEU:N	1:A:71:GLU:OE2	2.35	0.59
1:E:3:ILE:O	1:E:6:SER:HB3	2.02	0.59
1:E:138:GLN:HG2	1:E:139:THR:N	2.15	0.59
1:E:745:MET:CG	1:E:761:GLN:HE22	2.05	0.59
1:H:7:LEU:HB2	1:H:71:GLU:OE2	2.01	0.59
1:J:762:SER:OG	1:J:763:GLY:N	2.35	0.59
1:K:317:THR:OG1	1:K:321:THR:HB	2.03	0.59
1:K:536:CYS:O	1:K:566:PHE:HB2	2.02	0.59
1:K:842:TRP:C	1:K:843:GLN:HG3	2.26	0.59
1:L:6:SER:O	1:L:9:VAL:N	2.35	0.59
1:L:7:LEU:HB2	1:L:71:GLU:OE2	2.03	0.59
1:L:114:VAL:HG21	1:L:191:TRP:C	2.27	0.59
1:M:412:GLU:CG	1:M:457:SER:HB3	2.32	0.59
1:N:131:GLU:O	1:N:134:LEU:N	2.35	0.59
1:N:797:GLU:N	1:N:800:ARG:O	2.30	0.59
1:N:944:LEU:HD12	1:N:945:ASN:N	2.17	0.59
1:O:245:GLN:HG2	1:O:288:ARG:HG2	1.83	0.59
1:O:767:GLN:HG3	1:O:768:MET:N	2.17	0.59
1:P:312:VAL:CG1	1:P:327:ALA:HB2	2.29	0.59
1:P:592:PHE:HB2	1:P:594:ASP:OD2	2.02	0.59
1:P:870:VAL:HG12	1:P:871:GLU:H	1.68	0.59
1:A:237:ARG:HG3	1:A:237:ARG:HH11	1.67	0.59
1:B:654:TRP:CE2	1:B:666:GLY:HA3	2.38	0.59
1:C:249:GLU:HG2	1:C:251:ARG:NH2	2.17	0.59
1:C:783:GLN:NE2	3:C:1280:HOH:O	2.30	0.59
1:G:745:MET:HB3	1:G:761:GLN:HE21	1.66	0.59
1:G:928:PRO:HB2	1:G:973:ARG:NH1	2.17	0.59
1:H:777:LEU:HD12	1:H:889:ALA:CA	2.32	0.59
1:J:53:SER:C	1:J:54:LEU:HD23	2.28	0.59
1:J:636:ILE:HD12	1:J:680:ILE:HB	1.85	0.59
1:K:244:VAL:HG12	1:K:245:GLN:N	2.18	0.59
1:K:541:ALA:HB3	1:K:604:ASN:O	2.02	0.59
1:L:105:TYR:CZ	1:L:420:MET:HE2	2.38	0.59
1:M:442:ARG:NH2	3:M:1237:HOH:O	2.35	0.59
1:O:10:VAL:C	1:O:11:LEU:HD23	2.26	0.59
1:P:3:ILE:HG12	1:P:4:THR:N	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:259:SER:HA	1:P:269:SER:CB	2.27	0.59
1:P:706:THR:OG1	1:P:708:TRP:N	2.34	0.59
1:C:579:ASP:CG	1:C:580:GLU:H	2.10	0.59
1:D:881:ARG:C	1:D:882:ILE:HG13	2.27	0.59
1:E:30:HIS:ND1	1:E:31:PRO:O	2.35	0.59
1:E:63:PHE:CE2	1:E:70:PRO:HD3	2.38	0.59
1:E:141:ILE:HG12	1:E:213:SER:O	2.00	0.59
1:G:756:TRP:HE1	1:G:768:MET:HE3	1.68	0.59
1:H:66:PRO:CB	1:H:187:MET:HE1	2.33	0.59
1:I:91:GLN:HG3	1:I:96:ASP:OD1	2.03	0.59
1:I:130:ASP:OD1	1:I:131:GLU:N	2.35	0.59
1:J:340:GLY:C	1:J:341:LEU:HD23	2.27	0.59
1:K:225:PHE:HE2	1:K:328:CYS:SG	2.25	0.59
1:L:694:LEU:HD12	1:L:695:TRP:H	1.66	0.59
1:L:897:TRP:HD1	1:L:941:THR:HG23	1.66	0.59
1:L:936:GLY:O	1:L:938:ARG:NE	2.27	0.59
1:M:210:ARG:NH1	1:M:395:HIS:N	2.50	0.59
1:N:367:MET:N	3:N:1279:HOH:O	2.29	0.59
1:N:960:SER:HA	3:N:1282:HOH:O	2.01	0.59
1:O:23:GLN:HB3	1:O:26:ARG:NH2	2.17	0.59
1:O:796:SER:OG	1:O:801:ILE:HA	2.02	0.59
1:P:203:TRP:NE1	1:P:575:LEU:HD11	2.17	0.59
1:P:253:TYR:O	1:P:318:ALA:N	2.35	0.59
1:P:275:GLY:HA2	1:P:285:TYR:O	2.02	0.59
1:P:331:GLY:HA3	1:P:451:PRO:CG	2.31	0.59
1:A:579:ASP:CG	1:A:583:ASN:HB2	2.27	0.59
1:B:155:ASN:OD1	1:B:182:ASN:HA	2.03	0.59
1:B:323:ILE:HD12	1:B:323:ILE:N	2.17	0.59
1:B:571:VAL:HG12	1:B:607:VAL:CG2	2.32	0.59
1:C:391:HIS:HA	1:C:412:GLU:OE1	2.03	0.59
1:C:682:LEU:HD23	1:C:683:PRO:HD2	1.84	0.59
1:H:5:ASP:OD1	1:H:158:TRP:N	2.22	0.59
1:J:349:LEU:HD13	1:J:351:ILE:CD1	2.26	0.59
1:K:360:HIS:CG	1:K:361:PRO:HD2	2.37	0.59
1:L:152:LEU:HD12	1:L:153:TRP:H	1.65	0.59
1:L:246:MET:HG2	1:L:274:PHE:CE2	2.38	0.59
1:N:62:TRP:CD1	1:N:95:TYR:HB3	2.38	0.59
1:N:138:GLN:N	1:N:217:LYS:O	2.29	0.59
1:N:469:ASP:HB3	1:O:473:ARG:HD2	1.85	0.59
1:N:822:LEU:HD12	1:N:824:GLN:N	2.18	0.59
1:O:701:VAL:O	1:O:703:PRO:HD3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:942:ARG:HA	1:A:953:GLY:O	2.01	0.59
1:B:251:ARG:O	1:B:253:TYR:N	2.35	0.59
1:B:894:ARG:NH1	1:B:919:ASP:OD2	2.35	0.59
1:C:279:ILE:HD13	1:C:279:ILE:H	1.68	0.59
1:E:59:ARG:HH21	1:E:81:ALA:C	2.11	0.59
1:E:279:ILE:HD11	1:H:422:PRO:HB2	1.85	0.59
1:E:390:SER:HB2	1:E:391:HIS:CE1	2.36	0.59
1:E:701:VAL:HG22	1:E:714:ILE:HD12	1.83	0.59
1:G:652:LEU:HD12	1:G:699:ARG:O	2.03	0.59
1:H:123:TYR:CD2	1:H:208:ILE:HD12	2.38	0.59
1:H:151:HIS:NE2	3:H:1223:HOH:O	2.32	0.59
1:H:601:PHE:CE2	1:H:795:VAL:HG12	2.38	0.59
1:I:422:PRO:HD3	1:L:284:GLY:O	2.03	0.59
1:J:330:VAL:HA	3:J:1266:HOH:O	2.02	0.59
1:J:473:ARG:HB2	1:K:473:ARG:HG3	1.83	0.59
1:K:696:LEU:HD12	1:K:697:THR:N	2.17	0.59
1:M:88:SER:HA	1:M:366:VAL:HG21	1.83	0.59
1:M:801:ILE:HD13	1:M:808:GLU:CD	2.27	0.59
1:M:961:ARG:O	1:M:979:GLU:N	2.34	0.59
1:M:962:TYR:CD2	1:M:976:LEU:HB3	2.38	0.59
1:M:1000:SER:CB	1:M:1001:PRO:HD2	2.33	0.59
1:N:227:VAL:CG1	1:N:240:LEU:HD11	2.33	0.59
1:N:743:SER:OG	1:N:744:GLU:N	2.36	0.59
1:O:592:PHE:HB2	1:O:594:ASP:OD1	2.03	0.59
1:O:778:THR:HG22	1:O:779:PRO:CD	2.23	0.59
1:P:275:GLY:N	1:P:286:ALA:O	2.36	0.59
1:P:395:HIS:HE1	1:P:397:LEU:HB2	1.66	0.59
1:P:600:GLN:O	1:P:602:CYS:N	2.36	0.59
1:P:753:ASN:N	1:P:753:ASN:OD1	2.30	0.59
1:C:372:MET:HG2	1:C:398:TRP:HE3	1.66	0.59
1:D:876:THR:OG1	1:D:877:PRO:HD2	2.03	0.59
1:E:6:SER:OG	1:E:9:VAL:HG23	2.03	0.59
1:E:279:ILE:HG13	1:E:280:ASP:N	2.17	0.59
1:E:325:ALA:O	1:E:326:GLU:HG2	2.03	0.59
1:F:301:TRP:CD1	1:F:308:LEU:HD21	2.38	0.59
1:F:653:HIS:HD2	1:F:667:GLU:HG2	1.62	0.59
1:G:995:GLY:H	1:G:1002:SER:CB	2.15	0.59
1:H:79:PRO:CD	1:H:80:GLU:HG3	2.26	0.59
1:I:393:PRO:HD2	1:I:414:ASN:HB2	1.84	0.59
1:I:503:TYR:N	1:I:537:GLU:O	2.33	0.59
1:I:797:GLU:O	1:I:801:ILE:HD12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:869:ASP:OD1	1:J:1015:HIS:ND1	2.35	0.59
1:K:339:ASN:O	1:K:341:LEU:N	2.35	0.59
1:K:701:VAL:HG13	1:K:712:GLY:O	2.02	0.59
1:L:682:LEU:HB3	1:L:683:PRO:CD	2.33	0.59
1:L:849:LEU:HD23	1:L:849:LEU:N	2.18	0.59
1:M:211:ASP:OD1	1:M:211:ASP:N	2.29	0.59
1:M:510:GLN:HB3	1:M:512:PHE:CZ	2.37	0.59
1:M:856:TYR:HD2	1:M:864:MET:HE2	1.68	0.59
1:N:125:LEU:HG	1:N:125:LEU:O	2.00	0.59
1:O:43:ARG:O	1:O:43:ARG:HG2	2.02	0.59
1:O:533:LEU:HD12	1:O:534:ILE:H	1.67	0.59
1:O:949:HIS:CD2	1:O:1022:GLN:HE21	2.20	0.59
1:P:90:TRP:NE1	1:P:96:ASP:OD1	2.34	0.59
1:P:127:PHE:N	1:P:182:ASN:O	2.31	0.59
1:B:436:MET:HE3	1:B:467:ASN:ND2	2.18	0.59
1:E:307:ASN:O	1:E:308:LEU:HD23	2.03	0.59
1:F:246:MET:HE2	1:F:287:ASP:CB	2.33	0.59
1:G:229:THR:O	1:G:230:ARG:HG3	2.03	0.59
1:G:353:GLY:O	1:G:566:PHE:HA	2.01	0.59
1:G:844:HIS:CE1	1:G:845:GLN:HG3	2.37	0.59
1:G:850:PHE:HD1	1:G:872:VAL:HG13	1.68	0.59
1:H:18:ASN:CG	1:H:21:VAL:HG23	2.28	0.59
1:I:125:LEU:O	1:I:183:ARG:HA	2.03	0.59
1:I:246:MET:HE2	1:I:287:ASP:CB	2.32	0.59
1:J:210:ARG:HH12	1:J:395:HIS:N	2.01	0.59
1:J:228:ALA:HB3	1:J:241:GLU:HB2	1.84	0.59
1:J:608:PHE:O	1:J:611:ARG:N	2.32	0.59
1:K:36:TRP:CD2	1:K:42:ALA:HA	2.37	0.59
1:K:945:ASN:OD1	1:K:950:GLN:NE2	2.32	0.59
1:L:173:LEU:O	1:L:176:PHE:HD1	1.86	0.59
1:M:66:PRO:HA	1:M:120:THR:HG21	1.85	0.59
1:M:349:LEU:HB3	1:M:351:ILE:HD13	1.84	0.59
1:P:322:LEU:HD21	1:P:324:GLU:CA	2.33	0.59
1:P:373:VAL:O	1:P:377:LEU:HD12	2.03	0.59
1:P:949:HIS:HD2	1:P:1020:TRP:NE1	2.01	0.59
1:F:5:ASP:OD2	1:F:157:ARG:HA	2.03	0.59
1:F:262:GLN:HE22	1:F:299:LYS:HD2	1.68	0.59
1:F:360:HIS:CG	1:F:361:PRO:HD2	2.38	0.59
1:F:573:GLN:HB2	1:F:602:CYS:O	2.02	0.59
1:H:7:LEU:HD13	1:H:74:LEU:CD1	2.31	0.59
1:H:54:LEU:HB2	1:H:212:VAL:HG12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:59:ARG:NH2	1:H:81:ALA:O	2.30	0.59
1:I:73:TRP:CZ2	1:I:122:CYS:HB3	2.38	0.59
1:J:344:LEU:C	1:J:344:LEU:HD23	2.27	0.59
1:J:472:TYR:HD1	1:J:484:VAL:HG11	1.66	0.59
1:J:549:PHE:O	1:J:550:ALA:C	2.44	0.59
1:K:555:ALA:O	1:K:556:PHE:C	2.46	0.59
1:K:805:ALA:O	1:K:809:ARG:HG3	2.01	0.59
1:M:1022:GLN:OE1	1:M:1022:GLN:N	2.36	0.59
1:N:37:ARG:NH2	1:N:218:PRO:HD3	2.17	0.59
1:N:133:TRP:C	1:N:134:LEU:HD23	2.28	0.59
1:P:297:ASN:N	1:P:297:ASN:ND2	2.50	0.59
1:A:658:LEU:O	1:A:659:ASP:C	2.44	0.58
1:A:728:VAL:HG12	1:B:823:LEU:HD11	1.86	0.58
1:A:827:ALA:HA	1:A:836:ILE:HD13	1.83	0.58
1:C:188:VAL:C	1:C:189:LEU:HD23	2.27	0.58
1:D:141:ILE:HB	1:D:173:LEU:HD12	1.85	0.58
1:D:743:SER:OG	1:D:744:GLU:N	2.34	0.58
1:E:906:TYR:OH	1:E:935:ASN:HA	2.03	0.58
1:F:307:ASN:C	1:F:308:LEU:HD23	2.28	0.58
1:F:755:ARG:HB2	1:F:769:TRP:HB2	1.85	0.58
1:G:251:ARG:HB3	1:G:253:TYR:CE1	2.37	0.58
1:H:654:TRP:CE2	1:H:666:GLY:HA3	2.38	0.58
1:H:961:ARG:NH2	1:H:979:GLU:O	2.29	0.58
1:I:814:GLY:O	1:I:815:HIS:C	2.45	0.58
1:J:542:MET:HE3	1:J:601:PHE:HA	1.83	0.58
1:J:778:THR:CG2	1:J:779:PRO:HD2	2.33	0.58
1:K:38:ASN:ND2	1:K:41:GLU:H	2.00	0.58
1:K:533:LEU:HD12	1:K:533:LEU:C	2.28	0.58
1:M:356:ARG:HG2	1:M:356:ARG:NH1	2.16	0.58
1:M:796:SER:OG	1:M:802:ASP:N	2.29	0.58
1:M:1003:VAL:N	3:M:1233:HOH:O	2.31	0.58
1:N:218:PRO:O	1:N:221:GLN:NE2	2.33	0.58
1:O:271:THR:HG22	1:O:272:ALA:N	2.16	0.58
1:O:356:ARG:HH22	1:O:367:MET:HE1	1.67	0.58
1:P:43:ARG:HH21	1:P:264:GLU:HA	1.68	0.58
1:P:152:LEU:HD12	1:P:153:TRP:H	1.67	0.58
1:P:730:LEU:HD23	1:P:730:LEU:N	2.17	0.58
1:P:748:CYS:O	1:P:749:ILE:HD13	2.04	0.58
1:P:893:GLU:O	1:P:922:LEU:HB2	2.03	0.58
1:C:942:ARG:NE	1:C:954:ASP:OD1	2.37	0.58
1:C:1004:SER:HB2	1:C:1006:GLU:OE2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:499:ILE:CG2	1:D:533:LEU:HD22	2.32	0.58
1:E:10:VAL:HG21	1:E:153:TRP:CZ2	2.36	0.58
1:E:701:VAL:HG22	1:E:714:ILE:HD11	1.83	0.58
1:G:322:LEU:HD23	1:G:323:ILE:N	2.17	0.58
1:H:43:ARG:HH22	1:H:264:GLU:HG2	1.64	0.58
1:H:202:MET:CE	1:H:357:HIS:HD2	2.16	0.58
1:H:920:LEU:HB3	1:H:921:PRO:HD2	1.85	0.58
1:I:57:GLU:OE1	1:I:83:THR:HG21	2.03	0.58
1:I:141:ILE:O	1:I:170:GLU:HA	2.03	0.58
1:I:662:PRO:O	1:I:663:LEU:HD23	2.03	0.58
1:I:814:GLY:O	1:I:816:TYR:N	2.35	0.58
1:K:139:THR:HG21	1:K:177:LEU:HD12	1.84	0.58
1:K:205:MET:HE1	1:K:364:GLY:HA3	1.83	0.58
1:L:18:ASN:ND2	1:L:21:VAL:HG23	2.18	0.58
1:M:689:GLU:O	1:M:690:SER:C	2.46	0.58
1:M:777:LEU:HG	1:M:889:ALA:HB2	1.84	0.58
1:N:176:PHE:O	1:N:177:LEU:C	2.43	0.58
1:P:256:VAL:O	1:P:271:THR:HG23	2.02	0.58
1:P:312:VAL:HG12	1:P:326:GLU:O	2.03	0.58
1:P:994:GLY:HA3	1:P:1003:VAL:HG22	1.85	0.58
1:B:118:ASN:O	1:B:119:PRO:C	2.44	0.58
1:D:11:LEU:N	1:D:11:LEU:HD23	2.17	0.58
1:D:742:THR:HG22	1:D:743:SER:O	2.03	0.58
1:E:7:LEU:CD1	1:E:74:LEU:HD11	2.14	0.58
1:E:43:ARG:HG3	1:E:43:ARG:O	2.04	0.58
1:E:139:THR:HG21	1:E:177:LEU:HD12	1.85	0.58
1:F:691:ALA:HA	1:F:725:ASN:HB3	1.84	0.58
1:H:472:TYR:CE1	1:H:476:LYS:HD3	2.38	0.58
1:I:502:MET:O	1:I:517:LYS:NZ	2.30	0.58
1:I:814:GLY:O	1:I:817:GLN:N	2.35	0.58
1:K:167:LEU:HB3	1:K:168:PRO:CD	2.33	0.58
1:K:531:ARG:HB3	1:K:532:PRO:CD	2.32	0.58
1:K:782:ASP:HA	1:K:884:LEU:HD23	1.85	0.58
1:L:616:ALA:O	1:L:619:GLU:N	2.35	0.58
1:M:502:MET:O	1:M:517:LYS:NZ	2.35	0.58
1:N:606:LEU:HD13	1:N:617:LEU:HD12	1.85	0.58
1:N:920:LEU:HB3	1:N:921:PRO:HD2	1.85	0.58
1:P:410:VAL:O	1:P:410:VAL:HG12	2.03	0.58
1:P:577:LYS:HE3	1:P:591:ASP:O	2.03	0.58
1:A:239:VAL:HG22	1:A:294:ASN:OD1	2.02	0.58
1:A:579:ASP:OD1	1:A:583:ASN:N	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:262:GLN:HB2	1:B:309:TYR:CD2	2.37	0.58
1:B:441:THR:HG22	1:B:474:TRP:CZ3	2.38	0.58
1:D:3:ILE:C	1:D:5:ASP:H	2.12	0.58
1:D:129:VAL:CG2	1:D:182:ASN:HD22	2.16	0.58
1:E:548:GLY:O	1:E:551:LYS:HB2	2.02	0.58
1:E:933:SER:HA	3:E:1245:HOH:O	2.02	0.58
1:G:246:MET:HE2	1:G:287:ASP:CB	2.34	0.58
1:G:334:GLU:OE1	1:G:336:ARG:NH1	2.36	0.58
1:J:691:ALA:HA	1:J:725:ASN:HB3	1.83	0.58
1:J:696:LEU:HD12	1:J:697:THR:N	2.18	0.58
1:J:768:MET:HG3	1:J:769:TRP:N	2.18	0.58
1:J:833:ALA:HB1	1:J:858:ILE:O	2.03	0.58
1:K:10:VAL:HG21	1:K:153:TRP:CZ2	2.38	0.58
1:L:3:ILE:O	1:L:9:VAL:HG21	2.03	0.58
1:L:70:PRO:HG2	1:L:78:LEU:HD11	1.84	0.58
1:P:100:TYR:HE2	1:P:598:ASP:HB2	1.65	0.58
1:P:649:ASN:HB2	1:P:704:ASN:OD1	2.03	0.58
1:P:772:ASP:OD1	1:P:772:ASP:N	2.28	0.58
1:P:937:LEU:O	1:P:938:ARG:HD2	2.03	0.58
1:P:960:SER:OG	1:P:961:ARG:N	2.34	0.58
1:A:695:TRP:HE3	1:A:719:GLN:HG3	1.69	0.58
1:B:444:VAL:O	1:B:448:ARG:HG2	2.03	0.58
1:B:698:VAL:N	1:B:718:GLN:O	2.26	0.58
1:C:161:TYR:OH	1:C:163:GLN:NE2	2.29	0.58
1:D:1005:ALA:O	1:D:1007:PHE:N	2.36	0.58
1:E:796:SER:CB	1:E:802:ASP:H	2.16	0.58
1:F:237:ARG:HG3	1:F:237:ARG:NH1	2.17	0.58
1:F:272:ALA:HB1	1:F:273:PRO:HD2	1.84	0.58
1:F:375:ASP:O	1:F:379:MET:HG3	2.03	0.58
1:G:749:ILE:O	1:G:755:ARG:HA	2.03	0.58
1:K:9:VAL:O	1:K:10:VAL:C	2.47	0.58
1:K:333:ARG:NH1	1:K:451:PRO:O	2.34	0.58
1:L:7:LEU:N	1:L:71:GLU:OE2	2.37	0.58
1:L:360:HIS:CE1	1:L:361:PRO:HD2	2.38	0.58
1:L:595:THR:HA	1:L:596:PRO:C	2.29	0.58
1:L:946:TYR:CE2	1:L:982:THR:HG21	2.37	0.58
1:M:11:LEU:HD23	1:M:11:LEU:H	1.67	0.58
1:M:131:GLU:O	1:M:132:SER:C	2.46	0.58
1:M:509:ASP:O	1:M:511:PRO:HD3	2.04	0.58
1:N:166:ARG:HG2	1:N:392:TYR:CB	2.31	0.58
1:O:210:ARG:HH11	1:O:395:HIS:CA	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:619:GLU:OE2	3:P:1236:HOH:O	2.17	0.58
1:A:287:ASP:OD2	1:D:425:ARG:NH2	2.36	0.58
1:A:436:MET:HE3	1:A:467:ASN:HD22	1.68	0.58
1:B:658:LEU:O	1:B:661:LYS:N	2.31	0.58
1:F:533:LEU:C	1:F:533:LEU:HD12	2.27	0.58
1:H:100:TYR:O	1:H:597:ASN:HA	2.02	0.58
1:H:355:ASN:ND2	1:H:566:PHE:HB3	2.19	0.58
1:I:638:VAL:O	1:I:677:LYS:HA	2.03	0.58
1:I:743:SER:OG	1:I:744:GLU:N	2.36	0.58
1:J:360:HIS:CG	1:J:361:PRO:HD2	2.38	0.58
1:K:210:ARG:HH12	1:K:395:HIS:N	2.02	0.58
1:K:232:ASN:ND2	1:K:237:ARG:N	2.47	0.58
1:L:937:LEU:HA	1:L:957:PHE:O	2.03	0.58
1:M:79:PRO:CG	1:M:80:GLU:HG3	2.32	0.58
1:M:178:ARG:HB2	1:M:182:ASN:OD1	2.04	0.58
1:M:759:ASN:OD1	1:M:761:GLN:N	2.36	0.58
1:N:395:HIS:O	1:N:396:PRO:C	2.46	0.58
1:O:658:LEU:O	1:O:661:LYS:N	2.28	0.58
1:P:287:ASP:OD1	1:P:287:ASP:N	2.30	0.58
1:P:365:GLN:O	1:P:366:VAL:C	2.47	0.58
1:P:1015:HIS:NE2	1:P:1017:GLN:OE1	2.29	0.58
1:A:38:ASN:ND2	1:A:40:GLU:N	2.52	0.58
1:A:279:ILE:CD1	1:D:422:PRO:HG2	2.33	0.58
1:A:673:ALA:HB1	1:A:674:PRO:HD2	1.85	0.58
1:D:925:MET:HB3	3:D:1280:HOH:O	2.03	0.58
1:E:443:MET:HE3	1:E:456:TRP:HE3	1.69	0.58
1:F:236:SER:C	1:F:237:ARG:HG2	2.28	0.58
1:G:343:LEU:HD23	1:G:348:PRO:N	2.18	0.58
1:H:155:ASN:ND2	1:H:182:ASN:OD1	2.29	0.58
1:H:360:HIS:CE1	1:H:362:LEU:HB2	2.39	0.58
1:H:382:ASN:ND2	1:H:617:LEU:HD21	2.18	0.58
1:H:835:LEU:O	1:H:836:ILE:HD13	2.03	0.58
1:I:141:ILE:HG13	1:I:213:SER:O	2.03	0.58
1:J:98:PRO:HB2	1:J:203:TRP:CE3	2.38	0.58
1:K:78:LEU:N	1:K:78:LEU:HD23	2.18	0.58
1:K:486:TYR:CZ	1:K:488:GLY:HA3	2.39	0.58
1:K:570:TRP:CD1	1:K:571:VAL:HG22	2.38	0.58
1:K:645:ARG:NH2	1:K:650:GLU:OE1	2.37	0.58
1:K:651:LEU:HD13	1:K:669:PRO:HA	1.85	0.58
1:K:833:ALA:HB2	1:K:859:ASP:HA	1.86	0.58
1:L:3:ILE:O	1:L:3:ILE:HG13	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:260:LEU:O	1:L:267:VAL:N	2.36	0.58
1:L:897:TRP:CH2	1:L:918:TRP:HB3	2.38	0.58
1:M:770:ILE:HD11	1:M:1022:GLN:HG2	1.86	0.58
1:M:906:TYR:OH	1:M:935:ASN:HA	2.03	0.58
1:N:30:HIS:ND1	1:N:31:PRO:O	2.35	0.58
1:O:570:TRP:HD1	1:O:571:VAL:HG22	1.68	0.58
1:O:869:ASP:OD2	1:O:1015:HIS:ND1	2.36	0.58
1:P:518:TRP:O	1:P:519:SER:C	2.45	0.58
1:P:765:LEU:HD12	1:P:765:LEU:C	2.29	0.58
1:P:891:VAL:HG22	1:P:982:THR:OG1	2.04	0.58
1:P:907:PRO:HG3	1:P:990:HIS:O	2.03	0.58
1:A:783:GLN:NE2	1:A:985:ASN:OD1	2.28	0.58
1:A:1015:HIS:NE2	1:A:1017:GLN:OE1	2.30	0.58
1:B:718:GLN:HB3	1:B:720:TRP:CH2	2.38	0.58
1:E:164:ASP:HB2	1:E:439:ARG:NH1	2.19	0.58
1:E:549:PHE:CE2	1:E:620:ALA:HA	2.38	0.58
1:E:706:THR:O	1:E:707:ALA:C	2.43	0.58
1:F:7:LEU:HD13	1:F:74:LEU:CD1	2.18	0.58
1:F:759:ASN:OD1	1:F:762:SER:N	2.31	0.58
1:G:23:GLN:HB3	1:G:26:ARG:HH21	1.68	0.58
1:G:568:TRP:CD2	1:G:569:ASP:HB3	2.39	0.58
1:G:662:PRO:C	1:G:663:LEU:HD23	2.29	0.58
1:G:796:SER:OG	1:G:802:ASP:N	2.31	0.58
1:H:16:TRP:CE3	1:H:189:LEU:HD11	2.39	0.58
1:H:91:GLN:HG2	1:H:190:ARG:NH2	2.18	0.58
1:H:148:SER:OG	1:H:192:SER:HB3	2.03	0.58
1:H:367:MET:HE2	1:H:372:MET:HG3	1.85	0.58
1:H:708:TRP:CZ3	1:H:709:SER:HB3	2.37	0.58
1:I:961:ARG:NH2	1:I:979:GLU:O	2.33	0.58
1:J:70:PRO:O	1:J:72:SER:N	2.37	0.58
1:K:612:THR:HG23	1:K:613:PRO:HD2	1.85	0.58
1:N:427:THR:HG21	1:N:462:SER:HB3	1.85	0.58
1:O:73:TRP:HZ2	1:O:123:TYR:O	1.87	0.58
1:O:651:LEU:HD23	1:O:703:PRO:HG3	1.84	0.58
1:P:137:GLY:HA2	1:P:219:THR:HG23	1.85	0.58
1:P:200:GLN:O	1:P:204:ARG:NH2	2.37	0.58
1:P:409:VAL:HG12	1:P:410:VAL:N	2.17	0.58
1:P:616:ALA:O	1:P:619:GLU:N	2.32	0.58
1:P:797:GLU:N	1:P:800:ARG:O	2.29	0.58
1:A:358:GLU:HB3	1:A:367:MET:SD	2.43	0.58
1:A:370:GLN:O	1:A:371:THR:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:660:GLY:O	1:A:662:PRO:HD3	2.03	0.58
1:E:353:GLY:O	1:E:567:VAL:N	2.33	0.58
1:G:667:GLU:O	1:G:668:VAL:HG23	2.04	0.58
1:H:60:PHE:CB	1:H:84:VAL:HG21	2.33	0.58
1:I:36:TRP:C	1:I:37:ARG:HG2	2.28	0.58
1:I:271:THR:HG22	1:I:272:ALA:N	2.19	0.58
1:J:368:ASP:O	1:J:372:MET:HG3	2.02	0.58
1:J:557:ARG:HE	1:J:641:GLU:CD	2.12	0.58
1:L:131:GLU:O	1:L:134:LEU:N	2.31	0.58
1:L:227:VAL:CG1	1:L:240:LEU:HD11	2.34	0.58
1:L:544:ASN:HB3	1:L:789:LEU:HD22	1.84	0.58
1:L:895:VAL:HG12	1:L:896:ASN:N	2.17	0.58
1:M:355:ASN:HD21	1:M:566:PHE:HB3	1.65	0.58
1:M:830:LEU:HB2	1:M:833:ALA:O	2.04	0.58
1:M:832:ASP:OD1	1:M:832:ASP:N	2.37	0.58
1:O:608:PHE:O	1:O:611:ARG:N	2.34	0.58
1:P:115:PRO:HD2	1:P:191:TRP:HB3	1.85	0.58
1:P:378:LEU:O	1:P:381:GLN:N	2.36	0.58
1:P:902:PRO:O	1:P:938:ARG:NH2	2.37	0.58
1:P:949:HIS:HD2	1:P:1020:TRP:HE1	1.50	0.58
1:P:1018:LEU:HD22	1:P:1019:VAL:H	1.69	0.58
1:A:743:SER:O	1:A:760:ARG:NH1	2.35	0.58
1:B:258:VAL:HG22	1:B:313:VAL:HG22	1.85	0.58
1:C:106:PRO:HG3	1:C:204:ARG:HG3	1.86	0.58
1:C:117:GLU:H	1:C:117:GLU:CD	2.11	0.58
1:C:622:HIS:O	1:C:625:GLN:HG2	2.03	0.58
1:C:759:ASN:OD1	1:C:761:GLN:N	2.35	0.58
1:C:830:LEU:HD12	1:C:830:LEU:N	2.18	0.58
1:E:161:TYR:OH	1:E:163:GLN:NE2	2.37	0.58
1:F:79:PRO:CD	1:F:80:GLU:H	2.17	0.58
1:F:338:GLU:O	1:F:340:GLY:N	2.35	0.58
1:F:836:ILE:HG22	1:F:837:THR:H	1.68	0.58
1:G:14:ARG:NH1	1:G:16:TRP:HZ2	2.02	0.58
1:G:155:ASN:ND2	1:G:182:ASN:OD1	2.31	0.58
1:H:515:VAL:N	1:H:516:PRO:HD3	2.19	0.58
1:H:789:LEU:N	1:H:792:ASP:OD2	2.29	0.58
1:I:768:MET:HE1	1:I:1022:GLN:NE2	2.18	0.58
1:J:14:ARG:HG2	1:J:14:ARG:HH11	1.69	0.58
1:J:400:THR:O	1:J:404:ARG:HG3	2.04	0.58
1:J:806:TRP:CZ3	1:J:809:ARG:NH2	2.72	0.58
1:K:202:MET:CE	1:K:357:HIS:HD2	2.13	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:78:LEU:N	1:L:78:LEU:HD23	2.17	0.58
1:M:440:VAL:CG1	1:M:475:ILE:HD11	2.34	0.58
1:M:663:LEU:HD23	1:M:663:LEU:N	2.19	0.58
1:N:254:LEU:O	1:N:255:ARG:HD3	2.04	0.58
1:N:730:LEU:N	1:N:730:LEU:HD12	2.19	0.58
1:P:90:TRP:HE1	1:P:96:ASP:CG	2.11	0.58
1:P:930:VAL:HG23	1:P:973:ARG:NH1	2.18	0.58
1:A:14:ARG:NH1	1:A:16:TRP:HZ2	2.02	0.57
1:A:42:ALA:O	1:A:310:ARG:NH1	2.36	0.57
1:B:743:SER:O	1:B:760:ARG:NH1	2.37	0.57
1:C:746:ASP:CA	1:C:760:ARG:HG3	2.28	0.57
1:D:114:VAL:HG13	1:D:115:PRO:CD	2.34	0.57
1:D:910:LEU:C	1:D:910:LEU:HD12	2.29	0.57
1:E:53:SER:O	1:E:54:LEU:HD23	2.03	0.57
1:E:255:ARG:CZ	1:E:318:ALA:HB2	2.34	0.57
1:F:861:SER:HB2	1:F:863:GLN:HG3	1.85	0.57
1:G:59:ARG:NH2	1:G:81:ALA:HB3	2.18	0.57
1:I:152:LEU:HD12	1:I:153:TRP:H	1.69	0.57
1:I:289:VAL:HG23	1:I:290:THR:N	2.19	0.57
1:J:88:SER:HA	1:J:366:VAL:HG21	1.86	0.57
1:J:881:ARG:HH11	1:J:987:ASP:CG	2.12	0.57
1:K:672:VAL:HG13	1:K:678:GLN:HB2	1.86	0.57
1:K:794:GLY:HA2	1:K:998:SER:O	2.04	0.57
1:L:440:VAL:CG1	1:L:475:ILE:HD11	2.33	0.57
1:L:783:GLN:HE22	1:L:985:ASN:HB3	1.69	0.57
1:M:651:LEU:N	1:M:701:VAL:O	2.31	0.57
1:N:1020:TRP:HD1	1:N:1021:CYS:N	2.02	0.57
1:O:395:HIS:CG	1:O:396:PRO:HD2	2.39	0.57
1:O:686:PRO:HB2	1:O:688:PRO:HD3	1.86	0.57
1:P:30:HIS:ND1	1:P:31:PRO:O	2.33	0.57
1:P:738:PRO:HG2	1:P:834:VAL:HG23	1.86	0.57
1:P:881:ARG:NH2	1:P:934:GLU:OE1	2.37	0.57
1:A:695:TRP:CZ2	1:A:721:ARG:HG3	2.39	0.57
1:B:668:VAL:CG1	1:B:669:PRO:HD2	2.34	0.57
1:E:223:SER:HB3	1:E:247:CYS:HB2	1.86	0.57
1:E:743:SER:O	1:E:760:ARG:NH1	2.37	0.57
1:F:66:PRO:CB	1:F:187:MET:HE1	2.33	0.57
1:H:100:TYR:CE2	1:H:598:ASP:HB2	2.39	0.57
1:H:255:ARG:HB3	1:H:316:HIS:NE2	2.18	0.57
1:H:742:THR:HG22	1:H:743:SER:N	2.11	0.57
1:I:205:MET:O	1:I:206:SER:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:210:ARG:HH11	1:J:395:HIS:HB2	1.69	0.57
1:J:467:ASN:OD1	1:J:467:ASN:N	2.34	0.57
1:J:620:ALA:O	1:J:621:LYS:C	2.44	0.57
1:K:612:THR:CG2	1:K:613:PRO:HD2	2.34	0.57
1:K:796:SER:OG	1:K:801:ILE:HA	2.04	0.57
1:L:409:VAL:HG12	1:L:410:VAL:N	2.18	0.57
1:L:505:ARG:HG2	1:L:996:ASP:OD2	2.04	0.57
1:M:173:LEU:HB3	1:M:177:LEU:CG	2.35	0.57
1:M:272:ALA:HB1	1:M:273:PRO:HD2	1.85	0.57
1:M:284:GLY:O	1:P:422:PRO:HD3	2.05	0.57
1:M:573:GLN:HB2	1:M:602:CYS:O	2.03	0.57
1:O:673:ALA:O	1:O:674:PRO:C	2.45	0.57
1:O:854:LYS:HA	1:O:867:THR:O	2.03	0.57
1:P:19:PRO:HD3	1:P:112:PRO:HB3	1.86	0.57
1:P:141:ILE:HA	1:P:214:LEU:CD2	2.34	0.57
1:P:542:MET:HA	1:P:604:ASN:HA	1.85	0.57
1:P:854:LYS:HA	1:P:867:THR:O	2.04	0.57
1:P:898:LEU:CD2	1:P:942:ARG:HB2	2.33	0.57
1:A:282:ARG:HD3	1:D:418:HIS:O	2.03	0.57
1:B:17:GLU:OE1	1:B:113:PHE:HD1	1.86	0.57
1:D:627:PHE:C	1:D:628:GLN:HG2	2.28	0.57
1:E:164:ASP:CA	1:E:439:ARG:HH12	2.17	0.57
1:E:249:GLU:HB3	1:E:251:ARG:CZ	2.33	0.57
1:F:34:ALA:HB3	1:F:36:TRP:CZ3	2.38	0.57
1:H:91:GLN:HB3	1:H:98:PRO:HD3	1.87	0.57
1:H:822:LEU:C	1:H:823:LEU:HD23	2.29	0.57
1:I:275:GLY:N	1:I:286:ALA:O	2.36	0.57
1:L:114:VAL:HG13	1:L:115:PRO:N	2.18	0.57
1:L:531:ARG:HB3	1:L:532:PRO:CD	2.33	0.57
1:L:748:CYS:O	1:L:749:ILE:HG12	2.03	0.57
1:M:128:ASN:HA	1:M:180:GLY:O	2.03	0.57
1:M:697:THR:OG1	1:M:719:GLN:HB2	2.04	0.57
1:O:134:LEU:N	1:O:134:LEU:HD23	2.16	0.57
1:O:210:ARG:HH12	1:O:395:HIS:N	2.01	0.57
1:O:683:PRO:O	1:O:685:LEU:HG	2.04	0.57
1:P:99:ILE:O	1:P:203:TRP:HE3	1.87	0.57
1:B:57:GLU:HG2	1:B:83:THR:CG2	2.35	0.57
1:B:485:GLN:HA	1:B:496:THR:OG1	2.05	0.57
1:C:906:TYR:HB3	1:C:907:PRO:HD2	1.86	0.57
1:D:654:TRP:CE2	1:D:666:GLY:HA3	2.40	0.57
1:E:131:GLU:O	1:E:134:LEU:N	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:360:HIS:HE1	1:E:362:LEU:HB2	1.62	0.57
1:F:906:TYR:HB3	1:F:907:PRO:HD2	1.86	0.57
1:H:472:TYR:HD1	1:H:484:VAL:HG11	1.69	0.57
1:H:894:ARG:HH12	1:H:920:LEU:N	2.02	0.57
1:H:997:ASP:OD1	1:H:998:SER:N	2.37	0.57
1:I:128:ASN:HA	1:I:180:GLY:O	2.04	0.57
1:K:251:ARG:O	1:K:253:TYR:N	2.38	0.57
1:K:421:VAL:O	1:K:425:ARG:NH1	2.29	0.57
1:K:930:VAL:O	1:K:932:PRO:HD3	2.04	0.57
1:L:540:HIS:HD2	1:L:568:TRP:HD1	1.52	0.57
1:L:577:LYS:N	1:L:585:TRP:O	2.36	0.57
1:L:655:MET:HA	1:L:664:ALA:O	2.04	0.57
1:O:906:TYR:OH	1:O:935:ASN:HA	2.03	0.57
1:P:91:GLN:H	1:P:91:GLN:HE21	1.53	0.57
1:P:403:ASP:OD1	1:P:451:PRO:HD2	2.04	0.57
1:P:849:LEU:HB2	1:P:850:PHE:CD2	2.39	0.57
1:P:894:ARG:HH12	1:P:920:LEU:HA	1.66	0.57
1:P:899:GLY:CA	1:P:941:THR:HG23	2.30	0.57
1:A:492:ASP:O	1:A:531:ARG:NH2	2.31	0.57
1:A:778:THR:CG2	1:A:779:PRO:HD2	2.34	0.57
1:B:11:LEU:CD2	1:B:187:MET:HE1	2.34	0.57
1:E:234:ASP:O	1:E:235:PHE:C	2.44	0.57
1:E:390:SER:HA	1:E:391:HIS:ND1	2.19	0.57
1:G:698:VAL:HG21	1:G:720:TRP:CH2	2.39	0.57
1:H:416:GLU:OE2	1:H:418:HIS:HB2	2.04	0.57
1:I:7:LEU:CD1	1:I:74:LEU:HD11	2.34	0.57
1:I:627:PHE:C	1:I:628:GLN:HG2	2.29	0.57
1:J:271:THR:HG22	1:J:272:ALA:N	2.19	0.57
1:K:227:VAL:CG1	1:K:240:LEU:HD11	2.35	0.57
1:K:433:LEU:HD12	1:K:433:LEU:C	2.28	0.57
1:K:572:ASP:HB2	3:K:1282:HOH:O	2.04	0.57
1:K:652:LEU:O	1:K:667:GLU:HA	2.05	0.57
1:K:937:LEU:O	1:K:938:ARG:HG2	2.05	0.57
1:L:7:LEU:HD12	1:L:74:LEU:HD11	1.84	0.57
1:M:158:TRP:CZ2	1:M:160:GLY:HA2	2.38	0.57
1:M:630:ARG:HB3	1:M:630:ARG:CZ	2.34	0.57
1:N:129:VAL:HG23	1:N:182:ASN:ND2	2.20	0.57
1:N:797:GLU:O	1:N:798:ALA:C	2.46	0.57
1:P:356:ARG:HD2	1:P:379:MET:HE1	1.87	0.57
1:P:456:TRP:NE1	1:P:482:ARG:HD2	2.19	0.57
1:P:856:TYR:HD2	1:P:864:MET:CE	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:899:GLY:HA2	1:P:915:PHE:CE1	2.39	0.57
1:B:775:GLN:HE21	1:B:775:GLN:HA	1.69	0.57
1:B:833:ALA:HB2	1:B:859:ASP:HA	1.87	0.57
1:B:894:ARG:HH21	1:B:921:PRO:HD3	1.70	0.57
1:D:575:LEU:O	1:D:586:SER:HA	2.05	0.57
1:E:763:GLY:HA3	1:E:822:LEU:HD22	1.86	0.57
1:F:316:HIS:ND1	1:F:316:HIS:N	2.52	0.57
1:H:23:GLN:OE1	1:H:26:ARG:N	2.29	0.57
1:H:768:MET:O	1:H:775:GLN:HG2	2.04	0.57
1:K:52:ARG:O	1:K:213:SER:HB3	2.05	0.57
1:K:256:VAL:O	1:K:271:THR:HA	2.05	0.57
1:K:651:LEU:HD12	1:K:652:LEU:N	2.20	0.57
1:K:878:HIS:ND1	1:K:878:HIS:N	2.52	0.57
1:K:1009:LEU:HA	3:K:1284:HOH:O	2.04	0.57
1:L:102:ASN:HB3	3:L:1218:HOH:O	2.04	0.57
1:L:210:ARG:HH12	1:L:395:HIS:N	2.01	0.57
1:L:227:VAL:HG23	1:L:449:ASN:OD1	2.04	0.57
1:M:166:ARG:CG	1:M:392:TYR:HB2	2.34	0.57
1:O:11:LEU:HD23	1:O:11:LEU:N	2.18	0.57
1:O:90:TRP:HE1	1:O:96:ASP:CG	2.12	0.57
1:O:658:LEU:O	1:O:659:ASP:C	2.47	0.57
1:A:114:VAL:CG1	1:A:115:PRO:HD2	2.27	0.57
1:B:427:THR:CA	1:B:436:MET:HE1	2.28	0.57
1:D:487:GLU:HG2	1:D:491:ALA:HB2	1.86	0.57
1:F:433:LEU:HD12	1:F:433:LEU:O	2.04	0.57
1:F:770:ILE:O	1:F:773:LYS:HB2	2.04	0.57
1:F:832:ASP:OD1	1:F:832:ASP:N	2.38	0.57
1:F:910:LEU:HD12	1:F:910:LEU:C	2.29	0.57
1:G:538:TYR:O	1:G:567:VAL:HA	2.05	0.57
1:H:129:VAL:HG23	1:H:182:ASN:HD22	1.70	0.57
1:H:701:VAL:O	1:H:703:PRO:HD3	2.04	0.57
1:H:959:ILE:HD12	1:H:984:LEU:CD1	2.34	0.57
1:I:200:GLN:OE1	1:I:200:GLN:N	2.38	0.57
1:K:443:MET:HE3	1:K:456:TRP:HE3	1.69	0.57
1:K:1018:LEU:HD22	1:K:1019:VAL:H	1.69	0.57
1:L:420:MET:CE	1:L:426:LEU:HD11	2.31	0.57
1:L:971:SER:OG	1:L:972:HIS:ND1	2.35	0.57
1:M:548:GLY:O	1:M:551:LYS:N	2.36	0.57
1:M:606:LEU:HB3	1:M:617:LEU:CD1	2.35	0.57
1:M:937:LEU:HD21	1:M:939:CYS:SG	2.45	0.57
1:N:645:ARG:NH2	1:N:648:ASP:OD1	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:729:THR:O	1:O:731:PRO:HD3	2.03	0.57
1:P:689:GLU:N	1:P:689:GLU:OE1	2.37	0.57
1:P:863:GLN:HG2	1:P:1021:CYS:HB2	1.86	0.57
1:A:473:ARG:HD3	1:A:473:ARG:C	2.25	0.57
1:B:262:GLN:HB2	1:B:309:TYR:CE2	2.39	0.57
1:D:92:MET:HE3	1:D:362:LEU:O	2.04	0.57
1:D:778:THR:HB	1:D:887:GLN:H	1.68	0.57
1:E:445:GLN:NE2	1:H:430:PRO:HG2	2.18	0.57
1:F:262:GLN:HE22	1:F:299:LYS:CD	2.18	0.57
1:F:369:GLU:O	1:F:373:VAL:HG23	2.04	0.57
1:F:502:MET:HB2	1:F:537:GLU:HB2	1.87	0.57
1:F:645:ARG:NH1	1:F:646:HIS:O	2.38	0.57
1:H:325:ALA:O	1:H:326:GLU:HG2	2.05	0.57
1:H:746:ASP:O	1:H:760:ARG:HD2	2.05	0.57
1:H:946:TYR:HE2	1:H:982:THR:HG21	1.68	0.57
1:I:78:LEU:HD23	1:I:78:LEU:N	2.13	0.57
1:I:619:GLU:HA	1:I:912:ALA:HB2	1.87	0.57
1:J:52:ARG:NH2	1:J:128:ASN:O	2.30	0.57
1:J:883:GLY:HA3	1:J:987:ASP:HA	1.86	0.57
1:K:229:THR:HA	1:K:239:VAL:O	2.05	0.57
1:K:322:LEU:HD23	1:K:322:LEU:C	2.30	0.57
1:L:177:LEU:N	1:L:177:LEU:HD23	2.19	0.57
1:L:656:VAL:HG12	1:L:657:ALA:N	2.18	0.57
1:M:28:ALA:O	1:M:30:HIS:HD2	1.88	0.57
1:M:444:VAL:O	1:M:448:ARG:HB3	2.05	0.57
1:M:627:PHE:C	1:M:628:GLN:HG2	2.29	0.57
1:N:833:ALA:HB1	1:N:858:ILE:O	2.05	0.57
1:O:141:ILE:HG12	1:O:143:PHE:HE1	1.65	0.57
1:O:832:ASP:OD1	1:O:832:ASP:N	2.37	0.57
1:P:73:TRP:O	1:P:183:ARG:NH2	2.35	0.57
1:P:387:VAL:HG11	1:P:407:LEU:HD13	1.84	0.57
1:P:622:HIS:HA	1:P:625:GLN:OE1	2.04	0.57
1:A:7:LEU:HD12	1:A:74:LEU:HD11	1.86	0.57
1:A:421:VAL:O	1:A:425:ARG:NH1	2.38	0.57
1:A:859:ASP:OD1	1:A:861:SER:OG	2.23	0.57
1:C:730:LEU:HB3	1:C:731:PRO:HD2	1.87	0.57
1:D:589:GLY:HA3	1:D:599:ARG:HA	1.85	0.57
1:E:26:ARG:HH11	1:E:442:ARG:NH1	2.03	0.57
1:E:246:MET:HB3	1:E:274:PHE:HZ	1.66	0.57
1:E:917:ARG:NH2	1:E:943:GLU:OE2	2.38	0.57
1:F:246:MET:HE2	1:F:287:ASP:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:582:GLY:O	1:F:584:PRO:HD3	2.05	0.57
1:G:474:TRP:CZ2	1:G:478:VAL:HG21	2.40	0.57
1:G:782:ASP:HB2	1:G:842:TRP:CZ2	2.40	0.57
1:G:1020:TRP:HD1	1:G:1021:CYS:H	1.53	0.57
1:H:377:LEU:HD23	1:H:708:TRP:HA	1.87	0.57
1:I:101:THR:HG21	1:I:104:THR:HG22	1.86	0.57
1:L:18:ASN:HD22	1:L:21:VAL:HG23	1.68	0.57
1:L:656:VAL:CG1	1:L:694:LEU:HD11	2.35	0.57
1:L:769:TRP:HA	1:L:773:LYS:O	2.05	0.57
1:M:352:ARG:N	1:M:385:ASN:HB2	2.19	0.57
1:M:694:LEU:HB3	1:M:723:ALA:H	1.70	0.57
1:M:920:LEU:O	1:M:921:PRO:C	2.41	0.57
1:N:130:ASP:OD1	1:N:132:SER:HB3	2.04	0.57
1:N:634:GLN:O	1:N:682:LEU:HB2	2.05	0.57
1:O:833:ALA:HB1	1:O:858:ILE:O	2.05	0.57
1:P:198:GLU:HG2	1:P:414:ASN:OD1	2.05	0.57
1:P:962:TYR:HD2	1:P:966:GLN:NE2	2.03	0.57
1:B:460:ASN:O	1:B:461:GLU:C	2.47	0.57
1:C:200:GLN:HG2	1:C:391:HIS:HB2	1.87	0.57
1:C:380:LYS:HE3	1:C:406:GLY:O	2.05	0.57
1:D:755:ARG:HB2	1:D:769:TRP:HB2	1.86	0.57
1:D:890:GLN:HG3	1:D:891:VAL:N	2.19	0.57
1:E:213:SER:O	1:E:214:LEU:HD23	2.04	0.57
1:E:255:ARG:HG3	1:E:271:THR:HG22	1.86	0.57
1:E:830:LEU:HB3	1:F:828:ASP:OD2	2.05	0.57
1:F:26:ARG:HH12	1:F:163:GLN:H	1.52	0.57
1:G:88:SER:HA	1:G:366:VAL:HG21	1.86	0.57
1:G:102:ASN:C	1:G:102:ASN:HD22	2.13	0.57
1:G:246:MET:HG2	1:G:274:PHE:CZ	2.40	0.57
1:G:730:LEU:CB	1:G:731:PRO:HD2	2.35	0.57
1:H:100:TYR:HB2	1:H:203:TRP:CZ3	2.40	0.57
1:H:200:GLN:HG2	1:H:391:HIS:HB2	1.87	0.57
1:H:547:GLY:N	1:H:994:GLY:O	2.38	0.57
1:H:890:GLN:HG3	1:H:891:VAL:H	1.70	0.57
1:J:60:PHE:CB	1:J:84:VAL:HG21	2.34	0.57
1:J:920:LEU:HB3	1:J:921:PRO:CD	2.33	0.57
1:K:139:THR:HG21	1:K:177:LEU:CD1	2.35	0.57
1:K:770:ILE:HD11	1:K:1022:GLN:HG2	1.86	0.57
1:M:125:LEU:HD12	1:M:126:THR:H	1.68	0.57
1:M:284:GLY:C	1:P:422:PRO:HG3	2.29	0.57
1:M:354:VAL:HG23	1:M:567:VAL:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:367:MET:HE3	1:M:368:ASP:N	2.18	0.57
1:N:42:ALA:O	1:N:310:ARG:NH1	2.38	0.57
1:N:73:TRP:O	1:N:183:ARG:NH1	2.30	0.57
1:N:347:LYS:HB3	1:N:643:LEU:HD13	1.87	0.57
1:P:26:ARG:HD2	1:P:442:ARG:HH22	1.67	0.57
1:P:141:ILE:CG1	1:P:214:LEU:HD21	2.35	0.57
1:P:316:HIS:HB3	1:P:322:LEU:HA	1.87	0.57
1:A:130:ASP:OD1	1:A:131:GLU:N	2.37	0.56
1:A:758:PHE:HZ	1:A:864:MET:CE	2.18	0.56
1:C:358:GLU:HB3	1:C:367:MET:SD	2.45	0.56
1:D:949:HIS:HD2	1:D:1020:TRP:HE1	1.53	0.56
1:E:18:ASN:CG	1:E:21:VAL:HG23	2.30	0.56
1:E:99:ILE:CD1	1:E:190:ARG:HH12	2.12	0.56
1:E:646:HIS:O	1:E:648:ASP:N	2.37	0.56
1:E:708:TRP:CE3	1:E:709:SER:HB3	2.39	0.56
1:H:436:MET:CE	1:H:467:ASN:HD22	2.16	0.56
1:H:619:GLU:HA	1:H:912:ALA:HB2	1.87	0.56
1:I:427:THR:HG22	1:I:436:MET:HE1	1.87	0.56
1:K:544:ASN:HB2	1:K:929:TYR:CE2	2.40	0.56
1:K:654:TRP:NE1	1:K:666:GLY:HA3	2.20	0.56
1:K:742:THR:HG22	1:K:743:SER:N	2.19	0.56
1:L:296:GLU:O	1:L:297:ASN:C	2.45	0.56
1:M:473:ARG:C	1:M:473:ARG:HD3	2.30	0.56
1:O:3:ILE:O	1:O:9:VAL:HG21	2.05	0.56
1:O:251:ARG:HB3	1:O:253:TYR:CE1	2.40	0.56
1:O:558:GLN:HB3	1:O:559:TYR:HD1	1.70	0.56
1:O:587:ALA:HB1	1:O:591:ASP:CB	2.35	0.56
1:O:738:PRO:CA	1:O:751:LEU:HD12	2.34	0.56
1:P:236:SER:C	1:P:237:ARG:HG2	2.29	0.56
1:P:390:SER:HA	1:P:391:HIS:ND1	2.18	0.56
1:P:432:TRP:O	1:P:435:ALA:HB3	2.04	0.56
1:P:886:CYS:SG	1:P:888:LEU:HD21	2.44	0.56
1:A:777:LEU:HD11	1:A:889:ALA:HA	1.87	0.56
1:A:1011:ALA:HB3	1:A:1014:TYR:CZ	2.40	0.56
1:B:5:ASP:OD2	1:B:157:ARG:HA	2.04	0.56
1:B:542:MET:HE3	1:B:601:PHE:HA	1.88	0.56
1:B:599:ARG:HH21	1:B:797:GLU:HG3	1.69	0.56
1:C:542:MET:HG3	1:C:603:MET:O	2.06	0.56
1:E:164:ASP:CB	1:E:439:ARG:HH12	2.18	0.56
1:E:258:VAL:CG1	1:E:293:LEU:HD11	2.35	0.56
1:F:118:ASN:O	1:F:119:PRO:C	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:145:GLY:HA3	1:F:210:ARG:HG3	1.87	0.56
1:F:738:PRO:HB2	1:F:834:VAL:HG21	1.86	0.56
1:G:533:LEU:C	1:G:534:ILE:HG12	2.29	0.56
1:G:629:PHE:CD2	1:G:638:VAL:HG22	2.40	0.56
1:H:154:CYS:O	1:H:157:ARG:N	2.29	0.56
1:H:291:LEU:O	1:H:292:ARG:HG2	2.04	0.56
1:H:894:ARG:HH12	1:H:920:LEU:CA	2.17	0.56
1:I:57:GLU:HA	1:I:84:VAL:O	2.04	0.56
1:I:204:ARG:HD3	1:I:204:ARG:N	2.20	0.56
1:I:708:TRP:CE3	1:I:709:SER:HB3	2.40	0.56
1:K:246:MET:HE3	1:K:246:MET:O	2.06	0.56
1:L:341:LEU:HD23	1:L:561:ARG:HG2	1.87	0.56
1:L:952:ARG:O	1:L:1018:LEU:HD23	2.05	0.56
1:M:91:GLN:CD	1:M:91:GLN:H	2.13	0.56
1:M:412:GLU:HA	1:M:457:SER:HB3	1.87	0.56
1:P:73:TRP:HZ2	1:P:123:TYR:O	1.87	0.56
1:P:927:THR:HG21	1:P:929:TYR:CZ	2.40	0.56
1:A:202:MET:CE	1:A:392:TYR:HE2	2.18	0.56
1:B:352:ARG:HG2	1:B:553:TRP:CH2	2.40	0.56
1:B:356:ARG:HD2	1:B:379:MET:CE	2.35	0.56
1:B:658:LEU:O	1:B:660:GLY:N	2.39	0.56
1:B:906:TYR:HB3	1:B:907:PRO:CD	2.35	0.56
1:C:224:ASP:OD1	1:C:225:PHE:N	2.38	0.56
1:C:352:ARG:HB2	1:C:385:ASN:HB2	1.86	0.56
1:C:359:HIS:CD2	1:C:573:GLN:HA	2.40	0.56
1:D:87:PRO:HB2	1:D:209:PHE:HA	1.87	0.56
1:D:737:ILE:HB	1:D:738:PRO:HD2	1.87	0.56
1:D:870:VAL:HG12	1:D:871:GLU:N	2.20	0.56
1:D:895:VAL:HG12	1:D:896:ASN:N	2.20	0.56
1:E:79:PRO:CG	1:E:80:GLU:HG3	2.35	0.56
1:E:261:TRP:N	1:E:310:ARG:O	2.30	0.56
1:E:443:MET:CE	1:E:456:TRP:HE3	2.19	0.56
1:E:647:SER:HB3	1:E:672:VAL:HG23	1.88	0.56
1:E:652:LEU:N	1:E:668:VAL:O	2.33	0.56
1:F:79:PRO:HG2	1:F:80:GLU:HG2	1.86	0.56
1:F:160:GLY:HA3	1:F:171:PHE:CE2	2.40	0.56
1:F:927:THR:HG21	1:F:929:TYR:CE2	2.39	0.56
1:G:152:LEU:HG	1:G:153:TRP:N	2.15	0.56
1:G:304:GLU:OE1	1:G:644:PHE:N	2.30	0.56
1:G:579:ASP:CG	1:G:583:ASN:HB2	2.30	0.56
1:H:237:ARG:HH11	1:H:237:ARG:HG3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:704:ASN:OD1	1:H:704:ASN:N	2.39	0.56
1:I:178:ARG:O	1:I:179:ALA:C	2.49	0.56
1:I:672:VAL:HG13	1:I:678:GLN:HB2	1.87	0.56
1:I:718:GLN:HG2	1:I:720:TRP:CZ2	2.40	0.56
1:J:167:LEU:HB3	1:J:168:PRO:HD2	1.86	0.56
1:J:427:THR:HG21	1:J:462:SER:HB3	1.87	0.56
1:J:637:GLU:HB2	1:J:679:LEU:CD2	2.35	0.56
1:K:66:PRO:CB	1:K:187:MET:HE1	2.35	0.56
1:K:487:GLU:O	1:K:488:GLY:C	2.47	0.56
1:K:542:MET:HA	1:K:604:ASN:HA	1.85	0.56
1:K:617:LEU:O	1:K:620:ALA:HB3	2.05	0.56
1:L:651:LEU:CD1	1:L:669:PRO:HA	2.33	0.56
1:M:237:ARG:HH11	1:M:237:ARG:CG	2.18	0.56
1:M:854:LYS:HB3	1:M:867:THR:O	2.05	0.56
1:M:890:GLN:CG	1:M:891:VAL:H	2.17	0.56
1:N:344:LEU:HD23	1:N:344:LEU:C	2.30	0.56
1:N:708:TRP:CZ3	1:N:709:SER:HB3	2.40	0.56
1:N:742:THR:HG22	1:N:743:SER:N	2.19	0.56
1:N:770:ILE:HD11	1:N:1022:GLN:CG	2.34	0.56
1:N:965:GLN:O	1:N:969:GLU:HG3	2.04	0.56
1:O:102:ASN:HA	1:O:201:ASP:OD1	2.05	0.56
1:O:224:ASP:OD1	1:O:225:PHE:N	2.39	0.56
1:O:1005:ALA:O	1:O:1006:GLU:C	2.47	0.56
1:P:259:SER:HA	1:P:268:ALA:O	2.06	0.56
1:P:456:TRP:CD1	1:P:482:ARG:HG3	2.41	0.56
1:P:654:TRP:CE2	1:P:666:GLY:HA3	2.40	0.56
1:P:735:HIS:ND1	1:P:735:HIS:N	2.53	0.56
1:P:932:PRO:HB2	1:P:967:LEU:O	2.05	0.56
1:P:942:ARG:HH21	1:P:954:ASP:CG	2.13	0.56
1:A:570:TRP:O	1:A:607:VAL:HG22	2.06	0.56
1:A:577:LYS:O	1:A:584:PRO:HA	2.06	0.56
1:B:409:VAL:HG12	1:B:410:VAL:N	2.21	0.56
1:B:418:HIS:ND1	1:B:461:GLU:OE2	2.39	0.56
1:B:422:PRO:CG	1:C:279:ILE:HD11	2.35	0.56
1:D:100:TYR:HB2	1:D:203:TRP:CE3	2.40	0.56
1:F:53:SER:O	1:F:54:LEU:HD23	2.06	0.56
1:F:79:PRO:HD2	1:F:80:GLU:CG	2.34	0.56
1:F:636:ILE:HB	1:F:680:ILE:HB	1.88	0.56
1:F:942:ARG:HA	1:F:953:GLY:O	2.06	0.56
1:G:147:ASN:HB2	1:G:209:PHE:CE1	2.40	0.56
1:G:316:HIS:HA	1:G:323:ILE:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:5:ASP:OD1	1:H:157:ARG:HA	2.05	0.56
1:H:187:MET:CE	1:H:189:LEU:HD21	2.34	0.56
1:H:360:HIS:CB	1:H:363:HIS:HB2	2.35	0.56
1:I:28:ALA:O	1:I:30:HIS:HD2	1.89	0.56
1:I:100:TYR:CD1	1:I:602:CYS:HB3	2.40	0.56
1:I:125:LEU:HG	1:I:126:THR:N	2.20	0.56
1:I:764:PHE:O	1:I:766:SER:N	2.39	0.56
1:I:890:GLN:HG3	1:I:891:VAL:N	2.19	0.56
1:J:204:ARG:HD3	1:J:204:ARG:N	2.21	0.56
1:J:910:LEU:C	1:J:910:LEU:HD12	2.31	0.56
1:L:17:GLU:OE1	1:L:113:PHE:HA	2.06	0.56
1:M:3:ILE:HG23	1:M:4:THR:H	1.70	0.56
1:M:412:GLU:CB	1:M:457:SER:HB3	2.35	0.56
1:M:946:TYR:CD2	1:M:959:ILE:HD11	2.40	0.56
1:A:368:ASP:OD2	1:A:370:GLN:HB2	2.06	0.56
1:A:414:ASN:HB3	3:A:1262:HOH:O	2.04	0.56
1:A:416:GLU:OE2	1:A:418:HIS:HB2	2.06	0.56
1:A:479:ASP:OD2	1:A:482:ARG:NH1	2.36	0.56
1:B:131:GLU:O	1:B:132:SER:C	2.49	0.56
1:B:302:SER:HB2	1:B:304:GLU:H	1.71	0.56
1:B:375:ASP:O	1:B:379:MET:HG3	2.05	0.56
1:E:5:ASP:OD2	1:E:157:ARG:HA	2.05	0.56
1:E:128:ASN:HA	1:E:180:GLY:O	2.06	0.56
1:E:590:GLY:N	1:E:597:ASN:ND2	2.54	0.56
1:E:608:PHE:O	1:E:609:ALA:C	2.48	0.56
1:F:737:ILE:HB	1:F:738:PRO:CD	2.36	0.56
1:G:3:ILE:C	1:G:5:ASP:H	2.13	0.56
1:G:421:VAL:O	1:G:425:ARG:NH1	2.38	0.56
1:G:782:ASP:HA	1:G:884:LEU:HD23	1.86	0.56
1:H:606:LEU:HD13	1:H:617:LEU:HD12	1.88	0.56
1:M:246:MET:HE3	1:M:246:MET:O	2.06	0.56
1:N:322:LEU:HD23	1:N:322:LEU:C	2.31	0.56
1:N:447:ASP:HA	3:N:1206:HOH:O	2.05	0.56
1:O:103:VAL:HG22	1:O:418:HIS:CE1	2.41	0.56
1:O:200:GLN:HA	1:O:416:GLU:OE1	2.05	0.56
1:O:473:ARG:O	1:O:473:ARG:HD3	2.05	0.56
1:P:102:ASN:HD22	1:P:102:ASN:C	2.13	0.56
1:P:145:GLY:N	1:P:210:ARG:HB2	2.21	0.56
1:P:376:ILE:HD11	1:P:398:TRP:CZ3	2.41	0.56
1:P:382:ASN:OD1	1:P:617:LEU:HG	2.05	0.56
1:P:608:PHE:O	1:P:611:ARG:N	2.27	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:909:ARG:HD3	1:P:993:ILE:CD1	2.27	0.56
1:A:254:LEU:O	1:A:255:ARG:HD3	2.05	0.56
1:A:464:HIS:HB2	1:A:489:GLY:HA3	1.88	0.56
1:A:540:HIS:ND1	1:A:998:SER:OG	2.33	0.56
1:A:567:VAL:HG12	1:A:568:TRP:N	2.20	0.56
1:B:977:HIS:HD2	1:B:978:ALA:O	1.89	0.56
1:D:237:ARG:HG3	1:D:237:ARG:NH1	2.20	0.56
1:D:424:ASN:ND2	1:D:464:HIS:O	2.38	0.56
1:E:4:THR:CG2	1:H:12:GLN:HG2	2.34	0.56
1:E:284:GLY:O	1:H:422:PRO:HD3	2.05	0.56
1:F:110:ASN:O	1:F:113:PHE:HB2	2.05	0.56
1:G:703:PRO:O	1:G:711:ALA:HB1	2.06	0.56
1:H:351:ILE:N	1:H:563:GLN:O	2.35	0.56
1:I:894:ARG:HH11	1:I:919:ASP:CG	2.13	0.56
1:J:231:PHE:CD2	1:J:238:ALA:HB2	2.41	0.56
1:K:188:VAL:O	1:K:189:LEU:HD23	2.05	0.56
1:K:260:LEU:O	1:K:267:VAL:HG23	2.06	0.56
1:L:796:SER:OG	1:L:802:ASP:N	2.27	0.56
1:M:147:ASN:HB2	1:M:209:PHE:CE2	2.40	0.56
1:M:574:SER:HB3	1:M:603:MET:SD	2.46	0.56
1:N:663:LEU:N	1:N:663:LEU:HD23	2.20	0.56
1:P:141:ILE:HD11	1:P:212:VAL:CG1	2.35	0.56
1:B:287:ASP:OD1	1:B:287:ASP:N	2.29	0.56
1:B:553:TRP:O	1:B:557:ARG:HG3	2.06	0.56
1:B:650:GLU:HB3	1:B:670:LEU:HB2	1.87	0.56
1:C:91:GLN:HG2	1:C:98:PRO:HA	1.86	0.56
1:C:258:VAL:CG1	1:C:293:LEU:HD11	2.34	0.56
1:E:65:ALA:HB1	1:E:66:PRO:CD	2.35	0.56
1:F:237:ARG:HG3	1:F:237:ARG:HH11	1.70	0.56
1:G:73:TRP:CZ2	1:G:185:ALA:HB1	2.41	0.56
1:H:192:SER:O	1:H:195:SER:HB2	2.06	0.56
1:H:493:THR:HG23	3:H:1206:HOH:O	2.05	0.56
1:H:894:ARG:HH22	1:H:921:PRO:HD3	1.67	0.56
1:I:869:ASP:OD1	1:I:1015:HIS:ND1	2.35	0.56
1:J:487:GLU:O	1:J:491:ALA:N	2.34	0.56
1:K:261:TRP:CZ3	1:K:266:GLN:HB2	2.40	0.56
1:K:262:GLN:NE2	1:K:299:LYS:HD2	2.17	0.56
1:K:738:PRO:HB2	1:K:834:VAL:CG2	2.36	0.56
1:L:210:ARG:HH12	1:L:394:ASN:C	2.14	0.56
1:L:429:ASP:OD1	1:L:430:PRO:HD2	2.05	0.56
1:M:65:ALA:CB	1:M:67:GLU:HG3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:111:PRO:HG3	1:M:196:TYR:CE2	2.41	0.56
1:M:512:PHE:HE2	1:M:517:LYS:HG3	1.70	0.56
1:M:630:ARG:HH11	1:M:637:GLU:CD	2.13	0.56
1:M:657:ALA:HA	1:M:661:LYS:O	2.04	0.56
1:N:330:VAL:HA	3:N:1267:HOH:O	2.05	0.56
1:N:347:LYS:CB	1:N:643:LEU:HD13	2.36	0.56
1:P:155:ASN:ND2	1:P:182:ASN:OD1	2.38	0.56
1:P:382:ASN:HA	1:P:621:LYS:HD2	1.88	0.56
1:A:229:THR:C	1:A:230:ARG:HG3	2.30	0.56
1:A:241:GLU:HG3	1:A:292:ARG:HG2	1.86	0.56
1:B:403:ASP:OD2	1:B:450:HIS:ND1	2.32	0.56
1:C:893:GLU:OE1	1:C:893:GLU:HA	2.06	0.56
1:D:626:PHE:O	1:D:641:GLU:HB2	2.06	0.56
1:D:759:ASN:OD1	1:D:761:GLN:N	2.29	0.56
1:E:259:SER:O	1:E:311:ALA:HA	2.06	0.56
1:E:658:LEU:O	1:E:661:LYS:HB2	2.04	0.56
1:F:132:SER:OG	1:F:133:TRP:N	2.39	0.56
1:F:890:GLN:OE1	1:F:948:PRO:HD3	2.05	0.56
1:G:316:HIS:HB2	1:G:321:THR:O	2.04	0.56
1:G:750:GLU:CG	1:G:755:ARG:HG2	2.36	0.56
1:H:7:LEU:N	1:H:71:GLU:OE2	2.39	0.56
1:H:942:ARG:NE	1:H:954:ASP:OD2	2.38	0.56
1:I:38:ASN:ND2	1:I:41:GLU:H	2.02	0.56
1:I:689:GLU:O	1:I:690:SER:C	2.49	0.56
1:J:14:ARG:HG2	1:J:14:ARG:NH1	2.21	0.56
1:J:23:GLN:HA	1:J:161:TYR:O	2.05	0.56
1:K:274:PHE:HA	1:K:289:VAL:HB	1.87	0.56
1:L:53:SER:OG	1:L:55:ASN:HB2	2.06	0.56
1:L:84:VAL:HG12	1:L:85:VAL:H	1.71	0.56
1:L:230:ARG:O	1:L:238:ALA:HA	2.06	0.56
1:L:292:ARG:HH11	1:L:292:ARG:HG3	1.71	0.56
1:M:127:PHE:O	1:M:182:ASN:N	2.30	0.56
1:M:614:HIS:HB3	1:M:615:PRO:CD	2.36	0.56
1:N:751:LEU:O	1:N:752:GLY:C	2.48	0.56
1:P:274:PHE:HD2	1:P:288:ARG:N	2.03	0.56
1:P:788:PRO:HB3	1:P:807:VAL:CG2	2.35	0.56
1:P:932:PRO:O	1:P:933:SER:HB3	2.06	0.56
1:P:942:ARG:NH2	1:P:954:ASP:OD2	2.34	0.56
1:C:73:TRP:CZ2	1:C:122:CYS:HB3	2.41	0.56
1:D:619:GLU:HG2	1:D:909:ARG:HG3	1.88	0.56
1:E:377:LEU:CD2	1:E:708:TRP:HA	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:415:ILE:HG12	1:E:439:ARG:HD3	1.88	0.56
1:F:210:ARG:HH11	1:F:395:HIS:HA	1.70	0.56
1:F:708:TRP:CE3	1:F:709:SER:HB3	2.41	0.56
1:G:360:HIS:ND1	1:G:363:HIS:N	2.42	0.56
1:G:706:THR:OG1	1:G:709:SER:N	2.39	0.56
1:H:141:ILE:HA	1:H:214:LEU:HD23	1.87	0.56
1:J:227:VAL:HG12	1:J:240:LEU:HD11	1.85	0.56
1:J:285:TYR:HB3	1:J:288:ARG:HG3	1.88	0.56
1:J:351:ILE:HD13	1:J:351:ILE:N	2.19	0.56
1:J:796:SER:OG	1:J:802:ASP:N	2.29	0.56
1:K:14:ARG:HH11	1:K:14:ARG:CG	2.17	0.56
1:K:70:PRO:O	1:K:73:TRP:N	2.35	0.56
1:K:637:GLU:O	1:K:637:GLU:HG2	2.06	0.56
1:K:701:VAL:HG22	1:K:714:ILE:HD13	1.88	0.56
1:K:943:GLU:OE2	1:K:945:ASN:ND2	2.32	0.56
1:L:317:THR:HG23	1:L:323:ILE:HD11	1.88	0.56
1:M:447:ASP:O	1:M:449:ASN:N	2.39	0.56
1:M:651:LEU:O	1:M:701:VAL:N	2.28	0.56
1:N:102:ASN:HD22	1:N:102:ASN:C	2.13	0.56
1:N:377:LEU:HD23	1:N:708:TRP:HA	1.88	0.56
1:N:932:PRO:HG2	1:N:970:THR:O	2.05	0.56
1:O:671:ASP:N	1:O:678:GLN:OE1	2.31	0.56
1:C:285:TYR:HB3	1:C:288:ARG:HG3	1.86	0.56
1:C:624:GLN:NE2	3:C:1215:HOH:O	2.39	0.56
1:D:816:TYR:HB2	3:D:1213:HOH:O	2.05	0.56
1:D:881:ARG:O	1:D:882:ILE:HG13	2.06	0.56
1:F:18:ASN:N	1:F:193:ASP:OD2	2.39	0.56
1:F:499:ILE:HB	1:F:533:LEU:HB2	1.88	0.56
1:G:906:TYR:HB3	1:G:907:PRO:CD	2.33	0.56
1:H:72:SER:O	1:H:76:CYS:N	2.28	0.56
1:H:148:SER:HB3	1:H:190:ARG:O	2.06	0.56
1:H:262:GLN:HE22	1:H:299:LYS:HD3	1.71	0.56
1:H:789:LEU:HG	1:H:792:ASP:OD2	2.06	0.56
1:K:622:HIS:HB2	1:K:717:TRP:CZ2	2.41	0.56
1:L:461:GLU:HA	3:L:1240:HOH:O	2.05	0.56
1:M:433:LEU:HA	1:M:467:ASN:HD22	1.70	0.56
1:N:255:ARG:HD2	1:N:273:PRO:CA	2.36	0.56
1:N:369:GLU:O	1:N:373:VAL:HG23	2.06	0.56
1:N:454:ILE:HG13	1:N:455:ILE:HG13	1.87	0.56
1:O:200:GLN:HG2	1:O:391:HIS:HB2	1.87	0.56
1:O:375:ASP:OD2	1:O:611:ARG:NH2	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:92:MET:CE	1:P:575:LEU:HD22	2.36	0.56
1:P:994:GLY:HA3	1:P:1003:VAL:CG2	2.35	0.56
1:A:568:TRP:CD2	1:A:569:ASP:HB3	2.41	0.55
1:A:597:ASN:ND2	1:A:599:ARG:H	2.04	0.55
1:C:316:HIS:HD2	1:C:320:GLY:HA2	1.71	0.55
1:C:653:HIS:NE2	1:C:667:GLU:HG2	2.20	0.55
1:C:728:VAL:HG12	1:D:823:LEU:HD11	1.88	0.55
1:D:579:ASP:OD1	1:D:583:ASN:N	2.32	0.55
1:E:36:TRP:CG	1:E:42:ALA:HB2	2.41	0.55
1:E:524:LEU:HD11	1:E:562:LEU:HG	1.88	0.55
1:E:542:MET:CE	1:E:601:PHE:HA	2.36	0.55
1:G:390:SER:HA	1:G:391:HIS:ND1	2.21	0.55
1:H:785:THR:HB	3:H:1254:HOH:O	2.06	0.55
1:I:18:ASN:HD22	1:I:21:VAL:HG23	1.68	0.55
1:I:210:ARG:NH1	1:I:395:HIS:N	2.55	0.55
1:I:646:HIS:NE2	1:I:671:ASP:OD1	2.38	0.55
1:I:882:ILE:HD12	1:I:1009:LEU:HD13	1.89	0.55
1:J:499:ILE:HB	1:J:533:LEU:CD2	2.36	0.55
1:J:541:ALA:HB3	1:J:604:ASN:O	2.06	0.55
1:K:189:LEU:HD23	1:K:189:LEU:N	2.20	0.55
1:K:868:VAL:HG11	1:K:1016:TYR:CE1	2.41	0.55
1:L:118:ASN:O	1:L:120:THR:N	2.40	0.55
1:L:246:MET:HG2	1:L:274:PHE:CZ	2.41	0.55
1:L:637:GLU:HB2	1:L:679:LEU:HD21	1.88	0.55
1:L:767:GLN:CD	1:L:768:MET:H	2.15	0.55
1:L:937:LEU:HD13	1:L:990:HIS:CD2	2.40	0.55
1:M:317:THR:HG23	1:M:323:ILE:HD11	1.86	0.55
1:M:485:GLN:HA	1:M:496:THR:OG1	2.06	0.55
1:N:375:ASP:C	1:N:379:MET:HE3	2.30	0.55
1:N:695:TRP:CE2	1:N:721:ARG:HG3	2.40	0.55
1:O:929:TYR:O	1:O:931:PHE:N	2.39	0.55
1:P:107:ILE:HG12	1:P:108:THR:N	2.21	0.55
1:P:160:GLY:HA3	1:P:171:PHE:CE2	2.41	0.55
1:A:6:SER:OG	1:A:9:VAL:HG23	2.04	0.55
1:B:654:TRP:NE1	1:B:666:GLY:HA3	2.21	0.55
1:D:822:LEU:HD12	1:D:824:GLN:H	1.71	0.55
1:D:925:MET:HE3	3:D:1280:HOH:O	2.06	0.55
1:E:493:THR:HG23	3:E:1204:HOH:O	2.06	0.55
1:F:391:HIS:HA	1:F:412:GLU:OE1	2.06	0.55
1:F:768:MET:HE1	1:F:1022:GLN:NE2	2.21	0.55
1:F:876:THR:O	1:F:877:PRO:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:493:THR:HG23	3:G:1205:HOH:O	2.06	0.55
1:G:730:LEU:N	1:G:730:LEU:HD23	2.22	0.55
1:H:26:ARG:HD2	3:H:1225:HOH:O	2.06	0.55
1:J:7:LEU:HD13	1:J:74:LEU:HD11	1.88	0.55
1:J:395:HIS:O	1:J:396:PRO:C	2.48	0.55
1:K:227:VAL:HG13	1:K:240:LEU:HD11	1.88	0.55
1:L:223:SER:O	1:L:224:ASP:HB2	2.06	0.55
1:L:772:ASP:OD1	1:L:772:ASP:N	2.29	0.55
1:L:928:PRO:O	1:L:973:ARG:NH1	2.38	0.55
1:M:367:MET:HE2	1:M:372:MET:HG3	1.87	0.55
1:M:881:ARG:NH1	1:M:987:ASP:OD2	2.38	0.55
1:N:178:ARG:HG2	1:N:179:ALA:N	2.21	0.55
1:N:479:ASP:OD2	1:N:482:ARG:NH1	2.38	0.55
1:O:647:SER:HA	1:O:650:GLU:OE1	2.06	0.55
1:O:651:LEU:CD1	1:O:669:PRO:HA	2.36	0.55
1:P:433:LEU:HB3	1:P:434:PRO:HD3	1.89	0.55
1:A:38:ASN:ND2	1:A:41:GLU:H	1.99	0.55
1:B:92:MET:HE2	1:B:363:HIS:C	2.31	0.55
1:B:316:HIS:HB2	1:B:321:THR:O	2.05	0.55
1:B:341:LEU:CD2	1:B:561:ARG:HG2	2.37	0.55
1:B:1004:SER:HB2	1:B:1006:GLU:OE2	2.06	0.55
1:D:869:ASP:OD1	1:D:1015:HIS:ND1	2.39	0.55
1:E:79:PRO:HG2	1:E:80:GLU:CG	2.36	0.55
1:E:250:LEU:O	1:E:251:ARG:HG2	2.07	0.55
1:E:274:PHE:HD2	1:E:288:ARG:N	2.04	0.55
1:E:400:THR:O	1:E:404:ARG:HD2	2.07	0.55
1:E:854:LYS:HA	1:E:867:THR:O	2.06	0.55
1:F:653:HIS:NE2	1:F:667:GLU:HG2	2.21	0.55
1:G:36:TRP:CE2	1:G:42:ALA:HA	2.42	0.55
1:G:531:ARG:HB3	1:G:532:PRO:HD2	1.88	0.55
1:G:696:LEU:O	1:G:719:GLN:HB2	2.06	0.55
1:G:937:LEU:HG	1:G:938:ARG:H	1.72	0.55
1:H:963:SER:O	1:H:964:GLN:C	2.47	0.55
1:I:166:ARG:HB2	1:I:414:ASN:HD22	1.71	0.55
1:I:917:ARG:HH22	1:I:943:GLU:CD	2.14	0.55
1:K:608:PHE:HB2	1:K:612:THR:HB	1.89	0.55
1:L:105:TYR:OH	1:L:420:MET:HE2	2.07	0.55
1:L:471:LEU:O	1:L:475:ILE:HG13	2.07	0.55
1:M:30:HIS:HB2	1:M:31:PRO:CD	2.34	0.55
1:M:419:GLY:HA2	1:P:282:ARG:NH1	2.21	0.55
1:M:545:SER:O	1:M:909:ARG:HD3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:44:THR:O	1:N:46:ARG:N	2.39	0.55
1:N:588:TYR:O	1:N:589:GLY:C	2.46	0.55
1:N:673:ALA:O	1:N:676:GLY:N	2.35	0.55
1:O:102:ASN:ND2	1:O:201:ASP:HB2	2.21	0.55
1:P:414:ASN:O	1:P:439:ARG:NH1	2.32	0.55
1:P:651:LEU:N	1:P:701:VAL:O	2.32	0.55
1:P:781:ARG:O	1:P:885:ASN:N	2.35	0.55
1:P:835:LEU:C	1:P:836:ILE:HD13	2.31	0.55
1:A:316:HIS:ND1	1:A:316:HIS:N	2.53	0.55
1:C:275:GLY:HA2	1:C:285:TYR:O	2.06	0.55
1:C:485:GLN:HA	1:C:496:THR:OG1	2.07	0.55
1:D:5:ASP:OD2	1:D:157:ARG:HA	2.07	0.55
1:D:471:LEU:O	1:D:475:ILE:HG13	2.05	0.55
1:E:869:ASP:OD1	1:E:1015:HIS:HB2	2.05	0.55
1:F:43:ARG:O	1:F:310:ARG:HD3	2.07	0.55
1:F:418:HIS:ND1	1:F:461:GLU:OE2	2.39	0.55
1:F:767:GLN:CD	1:F:768:MET:H	2.12	0.55
1:G:246:MET:HG2	1:G:274:PHE:CE2	2.41	0.55
1:G:305:ILE:O	1:G:307:ASN:N	2.39	0.55
1:G:888:LEU:O	1:G:981:GLY:HA3	2.07	0.55
1:G:970:THR:HG22	1:G:975:LEU:HB2	1.89	0.55
1:H:86:VAL:HA	1:H:87:PRO:C	2.31	0.55
1:H:454:ILE:HD12	1:H:455:ILE:CG1	2.34	0.55
1:I:836:ILE:HG22	1:I:837:THR:N	2.22	0.55
1:K:18:ASN:N	1:K:193:ASP:OD2	2.38	0.55
1:K:31:PRO:CB	1:K:32:PRO:HD2	2.36	0.55
1:K:743:SER:OG	1:K:744:GLU:N	2.39	0.55
1:K:1018:LEU:CD2	1:K:1019:VAL:H	2.19	0.55
1:L:14:ARG:NH1	1:L:14:ARG:HG2	2.21	0.55
1:L:127:PHE:O	1:L:182:ASN:N	2.39	0.55
1:L:196:TYR:CD2	1:L:420:MET:HE1	2.40	0.55
1:L:583:ASN:HD22	1:L:583:ASN:H	1.39	0.55
1:L:703:PRO:O	1:L:711:ALA:HB1	2.06	0.55
1:M:505:ARG:O	1:M:506:VAL:C	2.48	0.55
1:M:698:VAL:O	1:M:717:TRP:HA	2.07	0.55
1:M:781:ARG:O	1:M:884:LEU:HA	2.06	0.55
1:N:695:TRP:CZ2	1:N:721:ARG:HD3	2.40	0.55
1:N:772:ASP:OD1	1:N:772:ASP:N	2.29	0.55
1:O:745:MET:HE2	1:O:761:GLN:NE2	2.21	0.55
1:P:141:ILE:HD13	1:P:141:ILE:C	2.32	0.55
1:P:239:VAL:HG22	1:P:294:ASN:OD1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:251:ARG:HD2	1:P:253:TYR:OH	2.06	0.55
1:P:285:TYR:CB	1:P:288:ARG:HB2	2.36	0.55
1:P:382:ASN:HD22	1:P:382:ASN:N	2.04	0.55
1:P:758:PHE:O	1:P:759:ASN:C	2.48	0.55
1:A:651:LEU:CD1	1:A:669:PRO:HA	2.36	0.55
1:B:13:ARG:O	1:B:14:ARG:C	2.47	0.55
1:C:40:GLU:HG3	1:C:43:ARG:NH1	2.21	0.55
1:C:835:LEU:HD12	1:C:856:TYR:O	2.05	0.55
1:C:970:THR:CG2	1:C:975:LEU:HB2	2.37	0.55
1:D:38:ASN:ND2	1:D:41:GLU:H	2.04	0.55
1:D:360:HIS:CE1	1:D:361:PRO:HD2	2.41	0.55
1:E:105:TYR:CD2	1:E:109:VAL:HG21	2.42	0.55
1:E:204:ARG:N	1:E:204:ARG:HD3	2.21	0.55
1:E:210:ARG:HH11	1:E:395:HIS:CA	2.19	0.55
1:E:520:ILE:HD12	1:E:562:LEU:HD22	1.87	0.55
1:F:188:VAL:C	1:F:189:LEU:HD23	2.32	0.55
1:F:347:LYS:HB2	1:F:643:LEU:HD13	1.87	0.55
1:G:258:VAL:CG1	1:G:293:LEU:HD11	2.36	0.55
1:G:942:ARG:HA	1:G:953:GLY:O	2.06	0.55
1:H:62:TRP:CD1	1:H:95:TYR:HB3	2.41	0.55
1:H:187:MET:HE2	1:H:189:LEU:HD21	1.89	0.55
1:H:269:SER:OG	1:H:270:GLY:N	2.40	0.55
1:H:409:VAL:HG12	1:H:410:VAL:N	2.21	0.55
1:I:400:THR:HG22	1:I:404:ARG:HD2	1.88	0.55
1:J:6:SER:O	1:J:10:VAL:HG23	2.07	0.55
1:J:624:GLN:NE2	3:J:1216:HOH:O	2.39	0.55
1:K:959:ILE:HD12	1:K:984:LEU:HD13	1.88	0.55
1:M:36:TRP:C	1:M:37:ARG:HG2	2.32	0.55
1:M:372:MET:O	1:M:373:VAL:C	2.45	0.55
1:M:571:VAL:HG11	1:M:611:ARG:CZ	2.36	0.55
1:M:906:TYR:HB3	1:M:907:PRO:CD	2.35	0.55
1:N:573:GLN:NE2	3:N:1257:HOH:O	2.40	0.55
1:N:579:ASP:OD1	1:N:583:ASN:N	2.29	0.55
1:N:653:HIS:CD2	1:N:667:GLU:HG2	2.41	0.55
1:N:699:ARG:NH1	1:N:714:ILE:HD11	2.22	0.55
1:O:118:ASN:O	1:O:119:PRO:C	2.47	0.55
1:O:689:GLU:O	1:O:690:SER:C	2.46	0.55
1:O:758:PHE:HZ	1:O:864:MET:HE1	1.72	0.55
1:O:868:VAL:HB	1:O:1016:TYR:CE1	2.42	0.55
1:P:100:TYR:HD2	1:P:598:ASP:H	1.55	0.55
1:P:378:LEU:O	1:P:381:GLN:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:955:PHE:CD2	1:P:986:ILE:HG23	2.42	0.55
1:F:683:PRO:O	1:F:684:GLU:C	2.50	0.55
1:G:86:VAL:HG13	1:G:87:PRO:CA	2.34	0.55
1:G:140:ARG:HB2	1:G:171:PHE:O	2.06	0.55
1:G:832:ASP:OD1	1:G:832:ASP:N	2.40	0.55
1:H:475:ILE:O	1:H:479:ASP:N	2.30	0.55
1:H:486:TYR:CZ	1:H:488:GLY:HA3	2.41	0.55
1:H:509:ASP:C	1:H:511:PRO:HD3	2.30	0.55
1:H:776:LEU:HD23	1:H:776:LEU:N	2.21	0.55
1:I:255:ARG:HB3	1:I:316:HIS:CE1	2.40	0.55
1:I:465:GLY:O	1:I:468:HIS:N	2.39	0.55
1:J:701:VAL:HG22	1:J:714:ILE:HD12	1.89	0.55
1:J:1022:GLN:C	1:J:1023:LYS:HG3	2.30	0.55
1:K:159:VAL:HG22	1:K:176:PHE:CE2	2.41	0.55
1:K:899:GLY:O	1:K:918:TRP:NE1	2.39	0.55
1:M:195:SER:O	1:M:198:GLU:N	2.32	0.55
1:M:374:GLN:O	1:M:377:LEU:N	2.39	0.55
1:M:414:ASN:C	1:M:415:ILE:HG13	2.31	0.55
1:M:540:HIS:O	1:M:542:MET:N	2.31	0.55
1:M:844:HIS:O	1:M:847:LYS:N	2.36	0.55
1:N:577:LYS:NZ	1:N:591:ASP:O	2.28	0.55
1:O:272:ALA:HB1	1:O:273:PRO:HD2	1.88	0.55
1:P:27:LEU:HB2	1:P:170:GLU:HB2	1.89	0.55
1:A:7:LEU:HB2	1:A:71:GLU:OE2	2.06	0.55
1:A:59:ARG:HH21	1:A:81:ALA:HB3	1.72	0.55
1:B:737:ILE:O	1:B:737:ILE:HG13	1.97	0.55
1:C:968:MET:HG3	1:C:968:MET:O	2.05	0.55
1:D:102:ASN:HD22	1:D:201:ASP:HB2	1.72	0.55
1:D:415:ILE:HG13	1:D:439:ARG:HD3	1.89	0.55
1:F:66:PRO:HB3	1:F:187:MET:HE3	1.88	0.55
1:F:356:ARG:CD	1:F:379:MET:HE1	2.36	0.55
1:F:658:LEU:HD12	1:F:659:ASP:H	1.70	0.55
1:G:647:SER:HG	1:G:672:VAL:H	1.51	0.55
1:G:738:PRO:CA	1:G:751:LEU:HD13	2.36	0.55
1:H:102:ASN:CG	1:H:103:VAL:HG23	2.31	0.55
1:H:658:LEU:HD22	1:H:688:PRO:HG2	1.89	0.55
1:H:768:MET:HE2	1:H:770:ILE:HD11	1.89	0.55
1:I:579:ASP:N	1:I:583:ASN:O	2.40	0.55
1:I:660:GLY:O	1:I:662:PRO:HD3	2.07	0.55
1:K:73:TRP:HZ2	1:K:123:TYR:O	1.89	0.55
1:K:726:LEU:HD13	1:L:851:ILE:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:893:GLU:OE1	1:K:893:GLU:HA	2.06	0.55
1:L:166:ARG:HG2	1:L:392:TYR:CB	2.34	0.55
1:M:274:PHE:HB3	1:M:286:ALA:O	2.07	0.55
1:M:746:ASP:HA	1:M:760:ARG:HG3	1.88	0.55
1:N:316:HIS:ND1	1:N:316:HIS:N	2.54	0.55
1:N:816:TYR:HB2	3:N:1211:HOH:O	2.07	0.55
1:O:618:THR:HG22	1:O:912:ALA:CB	2.36	0.55
1:P:54:LEU:O	1:P:58:TRP:NE1	2.28	0.55
1:P:356:ARG:HH11	1:P:356:ARG:HG2	1.72	0.55
1:P:538:TYR:O	1:P:567:VAL:HG13	2.06	0.55
1:P:770:ILE:O	1:P:773:LYS:HG3	2.07	0.55
1:P:854:LYS:HD2	1:P:856:TYR:OH	2.06	0.55
1:A:433:LEU:N	1:A:434:PRO:HD2	2.21	0.55
1:B:232:ASN:OD1	1:B:235:PHE:N	2.40	0.55
1:C:936:GLY:O	1:C:937:LEU:C	2.48	0.55
1:E:87:PRO:HB2	1:E:209:PHE:HA	1.87	0.55
1:E:154:CYS:O	1:E:155:ASN:C	2.50	0.55
1:E:465:GLY:O	1:E:468:HIS:HB2	2.06	0.55
1:E:487:GLU:HA	1:E:491:ALA:HA	1.87	0.55
1:F:155:ASN:ND2	1:F:182:ASN:OD1	2.29	0.55
1:F:668:VAL:HG12	1:F:669:PRO:N	2.20	0.55
1:F:808:GLU:OE1	1:F:808:GLU:HA	2.07	0.55
1:G:388:ARG:O	1:G:390:SER:N	2.39	0.55
1:G:910:LEU:HA	3:G:1289:HOH:O	2.06	0.55
1:H:804:ASN:O	1:H:805:ALA:C	2.49	0.55
1:I:759:ASN:OD1	1:I:761:GLN:N	2.38	0.55
1:J:347:LYS:HB3	1:J:643:LEU:HD22	1.88	0.55
1:K:499:ILE:HD11	1:K:529:GLU:CD	2.32	0.55
1:K:777:LEU:HG	1:K:889:ALA:HA	1.88	0.55
1:K:972:HIS:CB	1:K:974:HIS:HD2	2.19	0.55
1:K:1013:ARG:HH11	1:K:1013:ARG:HG3	1.72	0.55
1:L:36:TRP:HD1	1:L:41:GLU:HB2	1.72	0.55
1:L:200:GLN:HG3	1:L:416:GLU:OE1	2.06	0.55
1:L:934:GLU:HG3	1:L:935:ASN:N	2.16	0.55
1:M:90:TRP:NE1	1:M:91:GLN:NE2	2.54	0.55
1:M:200:GLN:NE2	1:M:392:TYR:HD2	2.03	0.55
1:M:885:ASN:HB2	1:M:984:LEU:O	2.06	0.55
1:O:7:LEU:N	1:O:71:GLU:OE2	2.33	0.55
1:O:131:GLU:O	1:O:132:SER:C	2.50	0.55
1:O:262:GLN:HE22	1:O:299:LYS:CD	2.15	0.55
1:O:409:VAL:HG23	1:O:452:SER:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:857:ARG:HH11	1:O:857:ARG:CG	2.20	0.55
1:O:989:PHE:CE2	1:O:1014:TYR:HB3	2.42	0.55
1:P:45:ASP:C	1:P:46:ARG:O	2.48	0.55
1:P:322:LEU:C	1:P:322:LEU:HD23	2.32	0.55
1:P:906:TYR:HB3	1:P:907:PRO:CD	2.34	0.55
1:B:227:VAL:CG1	1:B:240:LEU:HD11	2.37	0.55
1:B:572:ASP:OD1	1:B:603:MET:HB3	2.06	0.55
1:B:832:ASP:O	1:B:833:ALA:HB2	2.07	0.55
1:C:583:ASN:OD1	1:C:583:ASN:N	2.28	0.55
1:C:696:LEU:HB2	1:C:722:LEU:HD11	1.89	0.55
1:C:890:GLN:HG3	1:C:891:VAL:H	1.72	0.55
1:D:315:LEU:O	1:D:323:ILE:HB	2.07	0.55
1:E:907:PRO:HG2	1:E:990:HIS:O	2.07	0.55
1:H:23:GLN:HG2	1:H:26:ARG:HE	1.72	0.55
1:H:127:PHE:CE1	1:H:184:LEU:HD12	2.41	0.55
1:H:205:MET:HE1	1:H:365:GLN:N	2.22	0.55
1:H:280:ASP:N	1:H:280:ASP:OD1	2.37	0.55
1:H:853:ARG:NH1	1:H:871:GLU:OE2	2.39	0.55
1:H:937:LEU:HG	1:H:938:ARG:H	1.72	0.55
1:I:502:MET:CB	1:I:537:GLU:HB2	2.36	0.55
1:I:625:GLN:NE2	1:I:716:ALA:HB1	2.22	0.55
1:J:870:VAL:HG12	1:J:871:GLU:N	2.22	0.55
1:L:351:ILE:O	1:L:564:GLY:HA3	2.06	0.55
1:L:696:LEU:HB2	1:L:722:LEU:HD11	1.88	0.55
1:M:186:VAL:HG12	1:M:187:MET:N	2.20	0.55
1:M:200:GLN:HE21	1:M:391:HIS:HB2	1.71	0.55
1:M:282:ARG:HG3	1:P:423:MET:HG2	1.89	0.55
1:M:419:GLY:HA2	1:P:282:ARG:HH11	1.72	0.55
1:N:51:LEU:HD12	1:N:52:ARG:N	2.22	0.55
1:O:91:GLN:HG3	1:O:96:ASP:OD1	2.07	0.55
1:O:249:GLU:OE1	1:O:251:ARG:NH2	2.40	0.55
1:A:322:LEU:HD23	1:A:323:ILE:N	2.21	0.55
1:B:59:ARG:NH2	1:B:81:ALA:O	2.40	0.55
1:B:500:CYS:HA	1:B:534:ILE:O	2.07	0.55
1:C:767:GLN:OE1	1:C:768:MET:N	2.30	0.55
1:D:877:PRO:O	1:D:878:HIS:C	2.48	0.55
1:E:66:PRO:HB3	1:E:187:MET:HE2	1.88	0.55
1:E:503:TYR:N	1:E:537:GLU:O	2.31	0.55
1:E:806:TRP:O	1:E:809:ARG:HB2	2.06	0.55
1:G:542:MET:HG3	1:G:603:MET:O	2.06	0.55
1:G:814:GLY:O	1:G:816:TYR:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:906:TYR:O	1:G:910:LEU:HD23	2.06	0.55
1:H:92:MET:HE2	1:H:364:GLY:N	2.22	0.55
1:H:555:ALA:O	1:H:556:PHE:C	2.46	0.55
1:I:109:VAL:HG22	1:I:196:TYR:HE2	1.72	0.55
1:K:333:ARG:HD3	1:K:451:PRO:O	2.07	0.55
1:L:493:THR:HB	3:L:1206:HOH:O	2.07	0.55
1:L:500:CYS:HA	1:L:534:ILE:O	2.07	0.55
1:M:6:SER:O	1:M:9:VAL:HB	2.07	0.55
1:M:91:GLN:HB3	1:M:98:PRO:HD3	1.89	0.55
1:M:100:TYR:CE1	1:M:598:ASP:HB2	2.42	0.55
1:M:387:VAL:CG1	1:M:407:LEU:HD12	2.37	0.55
1:M:425:ARG:HH22	1:P:287:ASP:CG	2.15	0.55
1:M:429:ASP:O	1:M:430:PRO:C	2.48	0.55
1:N:891:VAL:O	1:N:891:VAL:HG12	2.06	0.55
1:P:45:ASP:O	1:P:46:ARG:C	2.48	0.55
1:P:100:TYR:O	1:P:597:ASN:HA	2.07	0.55
1:P:941:THR:O	1:P:954:ASP:HA	2.07	0.55
1:A:246:MET:HE3	1:A:247:CYS:C	2.32	0.54
1:A:390:SER:HB2	1:A:391:HIS:ND1	2.22	0.54
1:C:152:LEU:HG	1:C:153:TRP:N	2.21	0.54
1:C:622:HIS:HB2	1:C:717:TRP:CZ2	2.42	0.54
1:C:764:PHE:O	1:C:766:SER:N	2.40	0.54
1:C:917:ARG:HH22	1:C:943:GLU:CD	2.14	0.54
1:D:786:ARG:HH11	1:D:990:HIS:HE1	1.53	0.54
1:E:117:GLU:OE1	1:E:117:GLU:N	2.36	0.54
1:E:1015:HIS:NE2	1:E:1017:GLN:OE1	2.38	0.54
1:F:38:ASN:HD22	1:F:41:GLU:CG	2.12	0.54
1:G:125:LEU:HG	1:G:126:THR:N	2.22	0.54
1:G:500:CYS:HA	1:G:534:ILE:O	2.06	0.54
1:G:577:LYS:O	1:G:584:PRO:HA	2.06	0.54
1:G:900:LEU:HB3	1:G:913:ALA:HB1	1.87	0.54
1:H:126:THR:OG1	1:H:183:ARG:HG3	2.07	0.54
1:H:974:HIS:C	1:H:975:LEU:HD23	2.32	0.54
1:I:573:GLN:HB2	1:I:602:CYS:O	2.06	0.54
1:J:66:PRO:HB3	1:J:187:MET:CE	2.37	0.54
1:J:287:ASP:OD1	1:J:287:ASP:N	2.33	0.54
1:K:595:THR:HG23	1:K:596:PRO:HA	1.89	0.54
1:K:599:ARG:HD2	1:K:600:GLN:CD	2.33	0.54
1:K:881:ARG:HD3	1:K:987:ASP:OD1	2.06	0.54
1:L:218:PRO:O	1:L:221:GLN:NE2	2.36	0.54
1:N:7:LEU:HD21	1:N:69:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:100:TYR:HE1	1:O:598:ASP:CB	2.21	0.54
1:O:759:ASN:OD1	1:O:761:GLN:N	2.30	0.54
1:P:553:TRP:HZ2	3:P:1215:HOH:O	1.90	0.54
1:P:651:LEU:HD12	1:P:652:LEU:N	2.22	0.54
1:P:813:ALA:HB3	1:P:815:HIS:CD2	2.41	0.54
1:A:409:VAL:HG23	1:A:452:SER:HB2	1.89	0.54
1:B:237:ARG:NH1	1:B:237:ARG:HG3	2.21	0.54
1:D:138:GLN:HG3	1:D:172:ASP:OD2	2.06	0.54
1:D:194:GLY:O	1:D:198:GLU:HG3	2.07	0.54
1:D:218:PRO:HD2	1:D:324:GLU:OE2	2.06	0.54
1:D:545:SER:OG	1:D:791:ASN:ND2	2.35	0.54
1:E:42:ALA:O	1:E:310:ARG:NH1	2.40	0.54
1:E:352:ARG:HB2	1:E:385:ASN:HB2	1.89	0.54
1:E:439:ARG:HH11	1:E:439:ARG:CG	2.17	0.54
1:G:40:GLU:CD	1:G:43:ARG:HH12	2.15	0.54
1:G:210:ARG:HH12	1:G:394:ASN:C	2.15	0.54
1:H:350:LEU:HA	1:H:563:GLN:O	2.08	0.54
1:H:778:THR:OG1	1:H:887:GLN:HB3	2.07	0.54
1:H:797:GLU:O	1:H:800:ARG:C	2.50	0.54
1:H:881:ARG:HD3	1:H:987:ASP:CG	2.31	0.54
1:H:906:TYR:HB3	1:H:907:PRO:HD2	1.90	0.54
1:I:66:PRO:C	1:I:68:ALA:H	2.15	0.54
1:I:748:CYS:C	1:I:749:ILE:HD12	2.33	0.54
1:K:210:ARG:HH11	1:K:395:HIS:HA	1.73	0.54
1:K:337:ILE:HA	1:K:341:LEU:O	2.07	0.54
1:K:568:TRP:CE2	1:K:569:ASP:HB3	2.42	0.54
1:L:27:LEU:HD23	1:L:27:LEU:N	2.21	0.54
1:M:856:TYR:HD2	1:M:864:MET:CE	2.20	0.54
1:N:555:ALA:O	1:N:556:PHE:C	2.48	0.54
1:O:736:ALA:C	1:O:737:ILE:HG22	2.33	0.54
1:P:500:CYS:HA	1:P:534:ILE:O	2.06	0.54
1:B:69:VAL:HG21	1:B:122:CYS:SG	2.47	0.54
1:C:810:TRP:CZ2	1:C:991:MET:HE1	2.41	0.54
1:D:26:ARG:HD2	1:D:442:ARG:NH2	2.22	0.54
1:E:60:PHE:HB3	1:E:84:VAL:HG21	1.89	0.54
1:E:114:VAL:HG21	1:E:192:SER:N	2.22	0.54
1:E:386:ALA:HB1	1:E:408:TYR:O	2.07	0.54
1:E:469:ASP:O	1:E:470:ALA:C	2.50	0.54
1:F:647:SER:OG	1:F:672:VAL:HG23	2.07	0.54
1:G:257:THR:OG1	1:G:271:THR:HG23	2.07	0.54
1:H:91:GLN:C	1:H:93:HIS:H	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:936:GLY:HA2	1:H:938:ARG:HH21	1.73	0.54
1:J:743:SER:OG	1:J:744:GLU:N	2.31	0.54
1:J:801:ILE:C	1:J:803:PRO:HD3	2.33	0.54
1:K:400:THR:O	1:K:404:ARG:HD2	2.08	0.54
1:K:974:HIS:CE1	1:K:975:LEU:HD21	2.42	0.54
1:L:46:ARG:HB3	1:L:47:PRO:CD	2.37	0.54
1:L:195:SER:O	1:L:197:LEU:N	2.39	0.54
1:L:686:PRO:C	1:L:688:PRO:HD3	2.32	0.54
1:L:701:VAL:HG22	1:L:714:ILE:CD1	2.37	0.54
1:L:769:TRP:NE1	1:L:774:LYS:HG3	2.22	0.54
1:M:23:GLN:HE21	1:M:26:ARG:HB3	1.73	0.54
1:M:99:ILE:HG13	1:M:594:ASP:HB3	1.90	0.54
1:M:217:LYS:HG2	1:M:324:GLU:OE2	2.07	0.54
1:M:427:THR:CB	1:M:436:MET:HE1	2.37	0.54
1:M:465:GLY:N	1:M:468:HIS:ND1	2.47	0.54
1:N:37:ARG:HH21	1:N:218:PRO:HD3	1.71	0.54
1:N:382:ASN:OD1	1:N:621:LYS:HB2	2.07	0.54
1:O:26:ARG:HD2	1:O:442:ARG:HH22	1.72	0.54
1:O:132:SER:HA	1:O:135:GLN:NE2	2.22	0.54
1:O:765:LEU:C	1:O:765:LEU:HD12	2.33	0.54
1:O:906:TYR:HB3	1:O:907:PRO:CD	2.37	0.54
1:P:796:SER:HB2	1:P:802:ASP:CB	2.37	0.54
1:A:261:TRP:CH2	1:A:266:GLN:HB2	2.43	0.54
1:A:305:ILE:HD11	1:A:645:ARG:HB3	1.90	0.54
1:B:754:LYS:HA	1:B:769:TRP:O	2.07	0.54
1:B:835:LEU:HD12	1:B:857:ARG:HB2	1.88	0.54
1:C:836:ILE:HG22	1:C:837:THR:N	2.21	0.54
1:F:102:ASN:HD22	1:F:201:ASP:CB	2.18	0.54
1:F:502:MET:HG3	1:F:502:MET:O	2.07	0.54
1:F:937:LEU:HD12	1:F:957:PHE:O	2.08	0.54
1:G:487:GLU:O	1:G:491:ALA:N	2.38	0.54
1:H:110:ASN:O	1:H:113:PHE:N	2.40	0.54
1:H:589:GLY:C	1:H:597:ASN:HD22	2.14	0.54
1:I:347:LYS:HB3	1:I:643:LEU:HD22	1.88	0.54
1:I:823:LEU:HD11	1:J:728:VAL:HG12	1.89	0.54
1:K:814:GLY:O	1:K:815:HIS:C	2.51	0.54
1:K:906:TYR:HB3	1:K:907:PRO:HD2	1.89	0.54
1:L:23:GLN:HA	1:L:162:GLY:HA2	1.89	0.54
1:L:30:HIS:ND1	1:L:33:PHE:CE2	2.75	0.54
1:N:658:LEU:HD12	1:N:658:LEU:C	2.31	0.54
1:N:984:LEU:HD21	1:N:986:ILE:HG13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:34:ALA:O	1:O:35:SER:HB3	2.06	0.54
1:O:43:ARG:HD2	1:O:261:TRP:CD2	2.43	0.54
1:O:597:ASN:HD22	1:O:599:ARG:H	1.53	0.54
1:O:857:ARG:HH11	1:O:857:ARG:HG2	1.71	0.54
1:P:269:SER:OG	1:P:270:GLY:N	2.40	0.54
1:P:275:GLY:HA2	1:P:286:ALA:HA	1.88	0.54
1:P:392:TYR:HB2	1:P:393:PRO:HD2	1.90	0.54
1:P:652:LEU:HD12	1:P:699:ARG:O	2.07	0.54
1:P:929:TYR:O	1:P:930:VAL:C	2.50	0.54
1:A:379:MET:O	1:A:380:LYS:C	2.49	0.54
1:A:822:LEU:C	1:A:823:LEU:HD23	2.32	0.54
1:B:13:ARG:HD2	1:B:15:ASP:OD2	2.07	0.54
1:B:232:ASN:ND2	1:B:237:ARG:H	2.06	0.54
1:C:573:GLN:HB2	1:C:602:CYS:O	2.06	0.54
1:E:26:ARG:NH1	1:E:442:ARG:HH12	2.06	0.54
1:E:832:ASP:OD1	1:E:832:ASP:N	2.39	0.54
1:F:85:VAL:O	1:F:88:SER:HB3	2.08	0.54
1:F:234:ASP:OD1	1:F:236:SER:OG	2.26	0.54
1:G:36:TRP:CD2	1:G:42:ALA:HB2	2.43	0.54
1:G:636:ILE:HD13	1:G:698:VAL:HG11	1.90	0.54
1:H:465:GLY:O	1:H:468:HIS:HB2	2.07	0.54
1:H:651:LEU:CD1	1:H:669:PRO:HA	2.38	0.54
1:H:651:LEU:HD12	1:H:668:VAL:O	2.06	0.54
1:J:30:HIS:HB2	1:J:31:PRO:HD2	1.90	0.54
1:J:337:ILE:HA	1:J:341:LEU:O	2.08	0.54
1:K:40:GLU:O	1:K:41:GLU:C	2.50	0.54
1:K:797:GLU:O	1:K:800:ARG:C	2.50	0.54
1:K:835:LEU:HD12	1:K:856:TYR:O	2.07	0.54
1:K:955:PHE:HB2	1:K:987:ASP:O	2.07	0.54
1:L:743:SER:OG	1:L:744:GLU:N	2.41	0.54
1:M:427:THR:HG22	1:M:436:MET:CE	2.37	0.54
1:M:523:TRP:HA	1:M:526:LEU:CD1	2.37	0.54
1:M:960:SER:HA	3:M:1269:HOH:O	2.07	0.54
1:N:282:ARG:HH11	1:O:419:GLY:HA2	1.70	0.54
1:N:367:MET:HE2	1:N:372:MET:CG	2.38	0.54
1:B:360:HIS:HE1	1:B:362:LEU:HD12	1.73	0.54
1:B:372:MET:HE1	1:B:395:HIS:HB3	1.88	0.54
1:B:701:VAL:HG22	1:B:714:ILE:CD1	2.38	0.54
1:B:897:TRP:CZ2	1:B:918:TRP:HB2	2.43	0.54
1:D:38:ASN:HD22	1:D:41:GLU:HG3	1.73	0.54
1:D:246:MET:HE3	1:D:247:CYS:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:123:TYR:HD1	1:E:123:TYR:H	1.56	0.54
1:E:211:ASP:OD1	1:E:211:ASP:N	2.29	0.54
1:E:638:VAL:O	1:E:677:LYS:HA	2.08	0.54
1:G:533:LEU:O	1:G:534:ILE:HG12	2.08	0.54
1:H:519:SER:O	1:H:520:ILE:C	2.49	0.54
1:H:658:LEU:HD22	1:H:688:PRO:CG	2.37	0.54
1:J:649:ASN:O	1:J:702:GLN:HA	2.07	0.54
1:J:777:LEU:HG	1:J:889:ALA:HA	1.88	0.54
1:K:66:PRO:O	1:K:69:VAL:HG23	2.06	0.54
1:K:129:VAL:HG23	1:K:182:ASN:ND2	2.23	0.54
1:K:598:ASP:O	1:K:599:ARG:HG3	2.07	0.54
1:K:899:GLY:HA2	1:K:915:PHE:CE1	2.43	0.54
1:L:163:GLN:NE2	1:L:193:ASP:OD2	2.39	0.54
1:M:375:ASP:O	1:M:379:MET:HG3	2.08	0.54
1:M:547:GLY:N	1:M:994:GLY:O	2.37	0.54
1:M:748:CYS:O	1:M:749:ILE:HG12	2.08	0.54
1:N:46:ARG:HB3	1:N:47:PRO:HD2	1.90	0.54
1:N:139:THR:O	1:N:173:LEU:N	2.30	0.54
1:N:949:HIS:HD2	1:N:1020:TRP:HE1	1.54	0.54
1:O:7:LEU:HB2	1:O:71:GLU:OE2	2.07	0.54
1:O:78:LEU:HB3	1:O:79:PRO:HD2	1.90	0.54
1:O:474:TRP:CE2	1:O:478:VAL:HG21	2.42	0.54
1:P:357:HIS:HE1	1:P:568:TRP:HH2	1.56	0.54
1:P:946:TYR:CE2	1:P:959:ILE:HD11	2.41	0.54
1:A:246:MET:HG2	1:A:274:PHE:CZ	2.42	0.54
1:D:232:ASN:ND2	1:D:234:ASP:OD1	2.41	0.54
1:D:844:HIS:CE1	1:D:845:GLN:HG3	2.42	0.54
1:D:857:ARG:HG2	1:D:857:ARG:NH1	2.13	0.54
1:E:378:LEU:HB3	1:E:570:TRP:HH2	1.73	0.54
1:E:533:LEU:HD12	1:E:533:LEU:C	2.32	0.54
1:F:190:ARG:HD3	1:F:191:TRP:CZ2	2.42	0.54
1:F:333:ARG:NH1	1:F:454:ILE:HG22	2.23	0.54
1:F:632:SER:O	1:F:633:GLY:C	2.48	0.54
1:F:689:GLU:O	1:F:690:SER:C	2.48	0.54
1:G:108:THR:HG22	1:G:109:VAL:N	2.23	0.54
1:G:1018:LEU:HD22	1:G:1019:VAL:H	1.73	0.54
1:H:14:ARG:HH11	1:H:14:ARG:CG	2.20	0.54
1:H:325:ALA:C	1:H:326:GLU:HG2	2.33	0.54
1:I:552:TYR:O	1:I:555:ALA:HB3	2.08	0.54
1:I:822:LEU:HD12	1:I:822:LEU:C	2.33	0.54
1:J:336:ARG:HH21	1:J:338:GLU:CD	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:824:GLN:O	1:K:824:GLN:HG2	2.07	0.54
1:M:958:ASN:HB2	3:M:1264:HOH:O	2.08	0.54
1:N:333:ARG:NH1	1:N:451:PRO:O	2.40	0.54
1:O:131:GLU:O	1:O:134:LEU:HB2	2.08	0.54
1:P:140:ARG:O	1:P:214:LEU:HD22	2.07	0.54
1:A:127:PHE:CE1	1:A:184:LEU:HG	2.43	0.54
1:A:524:LEU:O	1:A:561:ARG:NH2	2.40	0.54
1:A:695:TRP:CE3	1:A:719:GLN:HG3	2.43	0.54
1:B:997:ASP:HB2	1:B:999:TRP:CZ2	2.43	0.54
1:C:784:PHE:HA	1:C:881:ARG:O	2.08	0.54
1:D:542:MET:HE3	1:D:601:PHE:HA	1.90	0.54
1:D:904:GLU:HG3	1:D:906:TYR:CE1	2.43	0.54
1:E:15:ASP:HB2	1:E:161:TYR:CE2	2.43	0.54
1:E:807:VAL:HG13	1:E:808:GLU:N	2.22	0.54
1:E:891:VAL:O	1:E:891:VAL:HG12	2.08	0.54
1:F:114:VAL:HG21	1:F:192:SER:N	2.23	0.54
1:G:801:ILE:HG23	1:G:808:GLU:CD	2.32	0.54
1:H:499:ILE:HG13	1:H:532:PRO:O	2.07	0.54
1:H:673:ALA:O	1:H:676:GLY:N	2.37	0.54
1:J:66:PRO:N	1:J:120:THR:OG1	2.41	0.54
1:K:427:THR:HG21	1:K:462:SER:HB3	1.90	0.54
1:K:907:PRO:CA	1:K:910:LEU:HD23	2.37	0.54
1:L:149:ALA:O	1:L:150:PHE:HB3	2.06	0.54
1:L:334:GLU:CD	1:L:336:ARG:HD3	2.33	0.54
1:L:438:GLU:O	1:L:442:ARG:HB2	2.07	0.54
1:L:653:HIS:HD2	1:L:667:GLU:HG3	1.71	0.54
1:M:127:PHE:N	1:M:182:ASN:O	2.30	0.54
1:M:360:HIS:O	1:M:364:GLY:N	2.37	0.54
1:M:367:MET:CB	1:M:372:MET:HE3	2.36	0.54
1:M:519:SER:O	1:M:520:ILE:C	2.48	0.54
1:M:568:TRP:HE1	1:M:604:ASN:HD22	1.55	0.54
1:N:616:ALA:O	1:N:619:GLU:N	2.41	0.54
1:N:652:LEU:HD12	1:N:699:ARG:O	2.08	0.54
1:N:943:GLU:HA	1:N:951:TRP:O	2.08	0.54
1:O:11:LEU:HD11	1:O:187:MET:HE1	1.89	0.54
1:O:36:TRP:O	1:O:37:ARG:HD3	2.07	0.54
1:O:409:VAL:HG12	1:O:410:VAL:N	2.21	0.54
1:O:658:LEU:HD23	1:O:661:LYS:NZ	2.22	0.54
1:O:743:SER:HB3	1:O:746:ASP:OD1	2.08	0.54
1:O:748:CYS:O	1:O:749:ILE:HD12	2.08	0.54
1:P:102:ASN:N	1:P:598:ASP:OD2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:706:THR:OG1	1:P:709:SER:N	2.40	0.54
1:B:92:MET:HE2	1:B:364:GLY:N	2.23	0.54
1:B:575:LEU:O	1:B:587:ALA:N	2.30	0.54
1:B:921:PRO:O	1:B:922:LEU:C	2.49	0.54
1:C:40:GLU:CG	1:C:43:ARG:HH12	2.21	0.54
1:E:693:GLN:HG2	1:E:721:ARG:HD2	1.88	0.54
1:F:237:ARG:HH11	1:F:237:ARG:CG	2.21	0.54
1:G:750:GLU:HG3	1:G:755:ARG:HG2	1.89	0.54
1:H:835:LEU:HD12	1:H:856:TYR:O	2.07	0.54
1:I:608:PHE:O	1:I:611:ARG:N	2.30	0.54
1:I:703:PRO:O	1:I:711:ALA:HB1	2.08	0.54
1:I:881:ARG:NH2	1:I:964:GLN:OE1	2.41	0.54
1:J:65:ALA:CB	1:J:66:PRO:HD2	2.30	0.54
1:J:246:MET:HG2	1:J:274:PHE:CZ	2.42	0.54
1:K:6:SER:O	1:K:9:VAL:N	2.39	0.54
1:K:339:ASN:C	1:K:341:LEU:H	2.16	0.54
1:K:485:GLN:HA	1:K:496:THR:OG1	2.07	0.54
1:K:645:ARG:HH11	1:K:645:ARG:HB2	1.73	0.54
1:K:782:ASP:HB2	1:K:842:TRP:CZ2	2.43	0.54
1:K:878:HIS:HD2	1:K:1010:SER:HB3	1.72	0.54
1:L:127:PHE:CE1	1:L:184:LEU:HG	2.38	0.54
1:L:369:GLU:HG2	1:L:397:LEU:HD21	1.90	0.54
1:M:905:ASN:OD1	1:M:939:CYS:HB2	2.07	0.54
1:N:36:TRP:CD2	1:N:42:ALA:HB2	2.43	0.54
1:O:140:ARG:HG2	1:O:215:LEU:HB3	1.89	0.54
1:O:446:ARG:HG2	1:O:446:ARG:O	2.07	0.54
1:P:17:GLU:OE1	1:P:113:PHE:HD1	1.90	0.54
1:P:73:TRP:CZ2	1:P:185:ALA:HB1	2.43	0.54
1:P:140:ARG:CG	1:P:215:LEU:HB3	2.37	0.54
1:P:203:TRP:HE1	1:P:575:LEU:HG	1.72	0.54
1:P:777:LEU:HD21	1:P:889:ALA:CB	2.38	0.54
1:B:373:VAL:HG12	1:B:377:LEU:HD11	1.90	0.54
1:D:199:ASP:OD2	1:D:419:GLY:N	2.38	0.54
1:F:655:MET:O	1:F:655:MET:HG2	2.07	0.54
1:G:651:LEU:HD12	1:G:651:LEU:C	2.31	0.54
1:G:740:LEU:HG	1:G:741:THR:N	2.21	0.54
1:H:13:ARG:O	1:H:14:ARG:HB2	2.07	0.54
1:H:149:ALA:O	1:H:150:PHE:HB3	2.06	0.54
1:H:572:ASP:CG	1:H:603:MET:HB3	2.33	0.54
1:H:696:LEU:O	1:H:719:GLN:HA	2.08	0.54
1:H:753:ASN:N	1:H:753:ASN:OD1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:69:VAL:HG11	1:I:73:TRP:CE3	2.43	0.54
1:I:90:TRP:HE3	1:I:123:TYR:OH	1.91	0.54
1:I:454:ILE:HG13	1:I:455:ILE:HG13	1.90	0.54
1:J:349:LEU:CD1	1:J:351:ILE:HD11	2.27	0.54
1:M:14:ARG:HH11	1:M:14:ARG:CG	2.21	0.54
1:M:608:PHE:HB2	1:M:612:THR:O	2.08	0.54
1:M:616:ALA:O	1:M:619:GLU:N	2.40	0.54
1:M:928:PRO:O	1:M:973:ARG:HD2	2.08	0.54
1:N:240:LEU:HD12	1:N:241:GLU:N	2.21	0.54
1:N:279:ILE:HD11	1:O:422:PRO:CG	2.38	0.54
1:N:822:LEU:CD1	1:N:824:GLN:H	2.21	0.54
1:O:51:LEU:HD13	1:O:215:LEU:HD13	1.90	0.54
1:O:376:ILE:HD13	1:O:401:LEU:HB3	1.90	0.54
1:P:625:GLN:HB2	1:P:716:ALA:HB2	1.90	0.54
1:A:14:ARG:CG	1:A:14:ARG:HH11	2.21	0.53
1:A:23:GLN:O	1:A:24:LEU:HD13	2.08	0.53
1:A:287:ASP:CG	1:D:425:ARG:HH22	2.16	0.53
1:B:40:GLU:O	1:B:41:GLU:C	2.48	0.53
1:B:341:LEU:HD23	1:B:341:LEU:N	2.20	0.53
1:B:600:GLN:NE2	1:B:790:ASP:OD1	2.40	0.53
1:C:802:ASP:O	1:C:804:ASN:N	2.41	0.53
1:E:577:LYS:HD3	1:E:585:TRP:CZ2	2.42	0.53
1:E:653:HIS:HD2	1:E:667:GLU:HB3	1.70	0.53
1:F:244:VAL:HG12	1:F:245:GLN:N	2.22	0.53
1:F:932:PRO:HG2	1:F:970:THR:O	2.07	0.53
1:G:259:SER:HB3	1:G:269:SER:HB2	1.89	0.53
1:H:223:SER:O	1:H:224:ASP:HB2	2.09	0.53
1:H:524:LEU:HD13	1:H:561:ARG:HB2	1.89	0.53
1:H:701:VAL:HG12	1:H:712:GLY:HA2	1.90	0.53
1:I:275:GLY:HA2	1:I:285:TYR:O	2.08	0.53
1:I:571:VAL:HG12	1:I:607:VAL:HG23	1.90	0.53
1:I:897:TRP:CH2	1:I:918:TRP:HB2	2.43	0.53
1:K:200:GLN:NE2	1:K:391:HIS:O	2.41	0.53
1:K:360:HIS:CE1	1:K:362:LEU:H	2.24	0.53
1:M:91:GLN:C	1:M:93:HIS:H	2.16	0.53
1:M:260:LEU:O	1:M:267:VAL:N	2.28	0.53
1:M:307:ASN:C	1:M:308:LEU:HD23	2.33	0.53
1:M:409:VAL:HG12	1:M:410:VAL:N	2.22	0.53
1:N:493:THR:HG23	3:N:1207:HOH:O	2.08	0.53
1:O:26:ARG:HH12	1:O:163:GLN:H	1.55	0.53
1:O:232:ASN:ND2	1:O:237:ARG:HG2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:600:GLN:HB3	1:O:603:MET:CE	2.38	0.53
1:P:107:ILE:HG13	1:P:115:PRO:HD3	1.89	0.53
1:P:767:GLN:CD	1:P:774:LYS:HB3	2.33	0.53
1:A:31:PRO:CB	1:A:32:PRO:HD2	2.38	0.53
1:A:322:LEU:HD21	1:A:324:GLU:C	2.32	0.53
1:A:356:ARG:HG2	1:A:356:ARG:NH1	2.04	0.53
1:A:757:GLN:O	1:A:765:LEU:HD12	2.07	0.53
1:D:217:LYS:NZ	1:D:324:GLU:OE1	2.36	0.53
1:D:903:GLN:O	1:D:904:GLU:C	2.50	0.53
1:E:599:ARG:HB2	1:E:600:GLN:OE1	2.08	0.53
1:F:79:PRO:HD2	1:F:80:GLU:HG2	1.90	0.53
1:F:125:LEU:HG	1:F:126:THR:N	2.22	0.53
1:G:225:PHE:C	1:G:226:HIS:HD2	2.17	0.53
1:G:322:LEU:HD21	1:G:324:GLU:C	2.32	0.53
1:G:571:VAL:HG12	1:G:609:ALA:HA	1.90	0.53
1:H:6:SER:O	1:H:9:VAL:HB	2.08	0.53
1:H:54:LEU:O	1:H:58:TRP:NE1	2.41	0.53
1:H:106:PRO:HG3	1:H:204:ARG:HG3	1.91	0.53
1:I:59:ARG:NH2	1:I:81:ALA:O	2.29	0.53
1:I:797:GLU:O	1:I:800:ARG:C	2.52	0.53
1:I:896:ASN:HA	1:I:918:TRP:O	2.08	0.53
1:I:960:SER:N	3:I:1254:HOH:O	2.41	0.53
1:L:930:VAL:O	1:L:932:PRO:HD3	2.08	0.53
1:L:974:HIS:CE1	1:L:975:LEU:HD21	2.44	0.53
1:M:114:VAL:HG13	1:M:115:PRO:N	2.23	0.53
1:M:597:ASN:HD22	1:M:599:ARG:H	1.56	0.53
1:N:58:TRP:CE2	1:N:125:LEU:HD22	2.43	0.53
1:N:797:GLU:O	1:N:799:THR:N	2.41	0.53
1:O:36:TRP:CE2	1:O:42:ALA:HA	2.44	0.53
1:O:955:PHE:HB2	1:O:987:ASP:O	2.07	0.53
1:P:138:GLN:HG2	1:P:139:THR:N	2.22	0.53
1:P:297:ASN:N	1:P:297:ASN:HD22	2.04	0.53
1:P:629:PHE:CD2	1:P:638:VAL:HG22	2.43	0.53
1:A:742:THR:CG2	1:A:743:SER:H	2.21	0.53
1:C:205:MET:O	1:C:206:SER:HB3	2.09	0.53
1:C:236:SER:C	1:C:237:ARG:HG2	2.32	0.53
1:D:102:ASN:HD22	1:D:201:ASP:CG	2.16	0.53
1:E:59:ARG:CZ	1:E:81:ALA:HB3	2.39	0.53
1:E:933:SER:O	1:E:934:GLU:C	2.47	0.53
1:F:501:PRO:HD2	1:F:533:LEU:HD13	1.91	0.53
1:G:316:HIS:HA	1:G:323:ILE:HD13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:262:GLN:HB2	1:H:309:TYR:CE2	2.43	0.53
1:H:558:GLN:HB3	1:H:559:TYR:HD1	1.72	0.53
1:H:573:GLN:NE2	3:H:1255:HOH:O	2.41	0.53
1:H:941:THR:O	1:H:954:ASP:HA	2.09	0.53
1:I:131:GLU:O	1:I:132:SER:C	2.51	0.53
1:J:263:GLY:C	1:J:265:THR:H	2.17	0.53
1:K:647:SER:HA	1:K:650:GLU:OE1	2.08	0.53
1:K:738:PRO:CA	1:K:751:LEU:HD12	2.38	0.53
1:K:802:ASP:O	1:K:804:ASN:N	2.42	0.53
1:K:964:GLN:O	1:K:967:LEU:HB2	2.09	0.53
1:L:92:MET:HE2	1:L:363:HIS:C	2.33	0.53
1:L:336:ARG:NH2	1:L:338:GLU:OE2	2.42	0.53
1:L:390:SER:HA	1:L:391:HIS:ND1	2.24	0.53
1:L:965:GLN:O	1:L:969:GLU:HG3	2.08	0.53
1:L:974:HIS:O	1:L:975:LEU:HD23	2.08	0.53
1:M:161:TYR:O	1:M:171:PHE:HZ	1.91	0.53
1:M:387:VAL:HG23	1:M:388:ARG:N	2.23	0.53
1:M:487:GLU:O	1:M:491:ALA:N	2.40	0.53
1:N:192:SER:O	1:N:195:SER:HB2	2.07	0.53
1:N:280:ASP:O	1:N:282:ARG:N	2.42	0.53
1:O:44:THR:O	1:O:46:ARG:N	2.41	0.53
1:O:232:ASN:HD21	1:O:237:ARG:HG2	1.71	0.53
1:P:205:MET:CE	1:P:365:GLN:HG3	2.38	0.53
1:A:202:MET:HE1	1:A:392:TYR:CE2	2.44	0.53
1:A:955:PHE:HB2	1:A:987:ASP:O	2.08	0.53
1:B:52:ARG:NH2	1:B:128:ASN:O	2.41	0.53
1:D:581:ASN:HB2	1:D:583:ASN:ND2	2.23	0.53
1:E:344:LEU:HD13	1:E:349:LEU:HD11	1.89	0.53
1:E:545:SER:O	1:E:546:LEU:HB2	2.08	0.53
1:F:432:TRP:HA	3:F:1210:HOH:O	2.08	0.53
1:H:615:PRO:HD2	3:H:1287:HOH:O	2.08	0.53
1:H:653:HIS:HD2	1:H:667:GLU:HG2	1.68	0.53
1:I:246:MET:HG2	1:I:274:PHE:CE2	2.42	0.53
1:I:439:ARG:HG2	1:I:439:ARG:NH1	2.24	0.53
1:J:800:ARG:C	1:J:801:ILE:HD12	2.33	0.53
1:J:945:ASN:OD1	1:J:950:GLN:HB2	2.07	0.53
1:K:157:ARG:O	1:K:159:VAL:HG23	2.08	0.53
1:K:870:VAL:HG12	1:K:871:GLU:N	2.22	0.53
1:L:123:TYR:N	1:L:123:TYR:CD1	2.77	0.53
1:L:337:ILE:HA	1:L:341:LEU:O	2.08	0.53
1:L:587:ALA:HB1	1:L:591:ASP:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:868:VAL:HB	1:L:1016:TYR:CE1	2.43	0.53
1:M:6:SER:HG	1:M:9:VAL:HG23	1.73	0.53
1:M:14:ARG:HH11	1:M:14:ARG:HG2	1.73	0.53
1:M:94:GLY:O	1:M:95:TYR:C	2.47	0.53
1:M:327:ALA:O	1:M:328:CYS:HB3	2.06	0.53
1:M:355:ASN:N	1:M:355:ASN:ND2	2.48	0.53
1:M:479:ASP:OD1	1:M:481:SER:HB3	2.08	0.53
1:M:555:ALA:O	1:M:556:PHE:C	2.49	0.53
1:M:775:GLN:C	1:M:776:LEU:HD23	2.33	0.53
1:M:822:LEU:CD1	1:M:824:GLN:H	2.15	0.53
1:N:919:ASP:O	1:N:920:LEU:HD23	2.07	0.53
1:P:90:TRP:CZ3	1:P:121:GLY:HA3	2.43	0.53
1:P:902:PRO:HG3	1:P:918:TRP:CE3	2.43	0.53
1:P:937:LEU:HG	1:P:957:PHE:O	2.08	0.53
1:A:38:ASN:ND2	1:A:40:GLU:H	2.07	0.53
1:B:188:VAL:C	1:B:189:LEU:HD23	2.33	0.53
1:C:246:MET:HG2	1:C:274:PHE:CZ	2.44	0.53
1:C:316:HIS:HA	1:C:323:ILE:CD1	2.33	0.53
1:C:757:GLN:OE1	1:C:769:TRP:HH2	1.91	0.53
1:C:851:ILE:HG21	1:C:853:ARG:NH1	2.24	0.53
1:D:102:ASN:CG	1:D:103:VAL:HG23	2.33	0.53
1:D:218:PRO:O	1:D:221:GLN:HB3	2.08	0.53
1:D:251:ARG:HD2	1:D:253:TYR:CZ	2.44	0.53
1:D:262:GLN:HB2	1:D:309:TYR:CE1	2.44	0.53
1:E:786:ARG:HH11	1:E:990:HIS:HE1	1.57	0.53
1:F:767:GLN:CD	1:F:774:LYS:HG2	2.33	0.53
1:G:619:GLU:HG2	1:G:909:ARG:HG3	1.90	0.53
1:H:131:GLU:O	1:H:134:LEU:HB2	2.08	0.53
1:H:758:PHE:O	1:H:759:ASN:C	2.49	0.53
1:H:902:PRO:HG3	1:H:918:TRP:CZ3	2.43	0.53
1:J:742:THR:CG2	1:J:743:SER:H	2.21	0.53
1:K:928:PRO:O	1:K:973:ARG:HD3	2.09	0.53
1:L:129:VAL:HG23	1:L:182:ASN:ND2	2.24	0.53
1:L:375:ASP:OD1	1:L:570:TRP:NE1	2.29	0.53
1:L:959:ILE:HG13	1:L:984:LEU:CD1	2.34	0.53
1:M:382:ASN:N	1:M:382:ASN:ND2	2.57	0.53
1:N:14:ARG:HH11	1:N:14:ARG:CG	2.22	0.53
1:N:974:HIS:O	1:N:975:LEU:HD23	2.09	0.53
1:O:78:LEU:N	1:O:78:LEU:HD23	2.17	0.53
1:O:555:ALA:O	1:O:556:PHE:C	2.49	0.53
1:O:572:ASP:HB3	1:O:603:MET:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:43:ARG:NH2	1:P:264:GLU:HG2	2.24	0.53
1:P:161:TYR:CG	1:P:162:GLY:N	2.76	0.53
1:P:317:THR:CG2	1:P:323:ILE:HD11	2.37	0.53
1:P:689:GLU:O	1:P:690:SER:C	2.51	0.53
1:A:278:ILE:HD12	1:A:278:ILE:N	2.24	0.53
1:A:438:GLU:O	1:A:442:ARG:HG3	2.07	0.53
1:C:24:LEU:HB2	1:C:161:TYR:HB3	1.91	0.53
1:C:40:GLU:O	1:C:41:GLU:C	2.49	0.53
1:C:393:PRO:HD3	1:C:412:GLU:O	2.07	0.53
1:C:499:ILE:HB	1:C:533:LEU:HD22	1.89	0.53
1:C:599:ARG:HB2	1:C:600:GLN:HG3	1.91	0.53
1:D:78:LEU:CB	1:D:79:PRO:HD2	2.30	0.53
1:D:79:PRO:CG	1:D:80:GLU:HG3	2.37	0.53
1:E:965:GLN:O	1:E:966:GLN:C	2.49	0.53
1:G:658:LEU:O	1:G:661:LYS:N	2.29	0.53
1:H:18:ASN:HB3	1:H:21:VAL:HG23	1.91	0.53
1:H:572:ASP:OD1	1:H:603:MET:HB3	2.09	0.53
1:H:682:LEU:HB3	1:H:683:PRO:CD	2.37	0.53
1:H:823:LEU:HB2	1:H:839:ALA:O	2.08	0.53
1:H:1011:ALA:HB3	1:H:1014:TYR:CZ	2.42	0.53
1:I:100:TYR:CZ	1:I:602:CYS:HB3	2.43	0.53
1:I:282:ARG:HH11	1:L:419:GLY:HA2	1.72	0.53
1:I:933:SER:O	1:I:934:GLU:C	2.50	0.53
1:K:43:ARG:NH2	1:K:264:GLU:HG2	2.23	0.53
1:K:767:GLN:HG3	1:K:768:MET:N	2.24	0.53
1:L:14:ARG:HG2	1:L:14:ARG:HH11	1.74	0.53
1:L:110:ASN:O	1:L:113:PHE:N	2.39	0.53
1:L:718:GLN:HG3	1:L:719:GLN:N	2.23	0.53
1:M:210:ARG:HH12	1:M:394:ASN:C	2.17	0.53
1:N:501:PRO:HG3	1:N:523:TRP:CZ3	2.43	0.53
1:N:541:ALA:HB3	1:N:604:ASN:O	2.07	0.53
1:O:210:ARG:HH12	1:O:394:ASN:C	2.16	0.53
1:O:768:MET:HG2	1:O:769:TRP:N	2.24	0.53
1:P:39:SER:O	1:P:40:GLU:C	2.48	0.53
1:P:293:LEU:N	1:P:293:LEU:HD23	2.24	0.53
1:P:444:VAL:HG21	1:P:475:ILE:HD13	1.90	0.53
1:P:455:ILE:CG2	1:P:485:GLN:HG2	2.39	0.53
1:P:804:ASN:N	1:P:804:ASN:HD22	2.06	0.53
1:A:100:TYR:O	1:A:597:ASN:HA	2.09	0.53
1:B:36:TRP:C	1:B:37:ARG:HG2	2.33	0.53
1:B:341:LEU:HD21	1:B:561:ARG:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:618:THR:HG22	1:B:912:ALA:HB1	1.91	0.53
1:D:23:GLN:OE1	1:D:26:ARG:HB3	2.07	0.53
1:E:474:TRP:O	1:E:478:VAL:HG23	2.08	0.53
1:F:261:TRP:CZ2	1:F:266:GLN:HG3	2.43	0.53
1:F:425:ARG:HH22	1:G:287:ASP:CG	2.17	0.53
1:G:7:LEU:CD1	1:G:74:LEU:HD11	2.37	0.53
1:G:499:ILE:O	1:G:533:LEU:HD13	2.08	0.53
1:G:542:MET:HA	1:G:604:ASN:HA	1.90	0.53
1:H:166:ARG:HG3	1:H:392:TYR:CB	2.37	0.53
1:H:237:ARG:HG3	1:H:237:ARG:NH1	2.24	0.53
1:H:398:TRP:O	1:H:401:LEU:HB2	2.08	0.53
1:L:155:ASN:ND2	1:L:176:PHE:O	2.37	0.53
1:L:254:LEU:C	1:L:255:ARG:HD3	2.34	0.53
1:L:377:LEU:HD22	1:L:708:TRP:CA	2.31	0.53
1:M:217:LYS:HD3	1:M:221:GLN:HB2	1.90	0.53
1:M:523:TRP:CD1	1:M:526:LEU:HD12	2.43	0.53
1:M:747:PHE:CD1	1:M:760:ARG:HD2	2.43	0.53
1:M:802:ASP:C	1:M:804:ASN:H	2.17	0.53
1:M:891:VAL:O	1:M:891:VAL:HG12	2.09	0.53
1:M:910:LEU:C	1:M:910:LEU:HD12	2.34	0.53
1:N:310:ARG:HG3	1:N:328:CYS:O	2.08	0.53
1:N:879:PRO:O	1:N:1009:LEU:HD12	2.08	0.53
1:O:30:HIS:HB2	1:O:31:PRO:HD2	1.90	0.53
1:O:130:ASP:OD2	1:O:132:SER:HB3	2.08	0.53
1:O:261:TRP:CH2	1:O:266:GLN:HB2	2.44	0.53
1:O:356:ARG:NH2	1:O:367:MET:HE1	2.23	0.53
1:O:748:CYS:C	1:O:749:ILE:HD12	2.33	0.53
1:O:890:GLN:O	1:O:891:VAL:HG23	2.09	0.53
1:P:3:ILE:O	1:P:9:VAL:HG21	2.09	0.53
1:P:162:GLY:O	1:P:163:GLN:HG2	2.07	0.53
1:P:381:GLN:NE2	1:P:708:TRP:O	2.29	0.53
1:P:849:LEU:HB3	1:P:850:PHE:CZ	2.43	0.53
1:B:88:SER:HA	1:B:366:VAL:HG21	1.90	0.53
1:B:869:ASP:OD1	1:B:1015:HIS:HB2	2.08	0.53
1:C:37:ARG:HH21	1:C:218:PRO:HD3	1.74	0.53
1:C:73:TRP:O	1:C:183:ARG:NH1	2.30	0.53
1:C:413:ALA:O	1:C:415:ILE:N	2.41	0.53
1:D:129:VAL:HG21	1:D:182:ASN:ND2	2.24	0.53
1:E:608:PHE:O	1:E:610:ASP:N	2.42	0.53
1:E:685:LEU:HB3	1:E:686:PRO:CD	2.38	0.53
1:E:856:TYR:HD2	1:E:864:MET:HE2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:610:ASP:OD1	1:F:612:THR:HG23	2.09	0.53
1:F:654:TRP:HA	1:F:697:THR:O	2.08	0.53
1:G:43:ARG:O	1:G:310:ARG:HD3	2.09	0.53
1:G:69:VAL:HG11	1:G:122:CYS:SG	2.49	0.53
1:G:166:ARG:CG	1:G:392:TYR:HB2	2.39	0.53
1:G:737:ILE:HG13	1:G:738:PRO:O	2.08	0.53
1:G:928:PRO:HB2	1:G:973:ARG:HH11	1.73	0.53
1:H:205:MET:HE1	1:H:364:GLY:HA3	1.86	0.53
1:H:579:ASP:CG	1:H:583:ASN:HB2	2.34	0.53
1:H:635:THR:HG23	1:H:681:GLU:CD	2.34	0.53
1:H:898:LEU:HD12	1:H:917:ARG:HA	1.91	0.53
1:I:91:GLN:C	1:I:93:HIS:H	2.16	0.53
1:I:775:GLN:C	1:I:776:LEU:HD23	2.34	0.53
1:J:10:VAL:HG21	1:J:153:TRP:HZ2	1.73	0.53
1:J:783:GLN:NE2	1:J:985:ASN:OD1	2.36	0.53
1:K:894:ARG:HH12	1:K:919:ASP:C	2.16	0.53
1:L:776:LEU:N	1:L:776:LEU:HD23	2.23	0.53
1:M:309:TYR:O	1:M:329:ASP:HA	2.08	0.53
1:M:355:ASN:OD1	1:M:388:ARG:HD3	2.09	0.53
1:M:778:THR:HG22	1:M:779:PRO:CD	2.38	0.53
1:M:814:GLY:O	1:M:815:HIS:C	2.51	0.53
1:O:372:MET:O	1:O:373:VAL:C	2.51	0.53
1:O:433:LEU:HB3	1:O:434:PRO:HD3	1.91	0.53
1:P:30:HIS:ND1	1:P:33:PHE:CE2	2.77	0.53
1:P:71:GLU:HG3	1:P:74:LEU:HD12	1.91	0.53
1:P:192:SER:O	1:P:195:SER:HB2	2.08	0.53
1:P:209:PHE:CD1	1:P:210:ARG:HG2	2.44	0.53
1:P:301:TRP:CH2	1:P:452:SER:HA	2.44	0.53
1:P:402:CYS:HB3	1:P:407:LEU:CB	2.38	0.53
1:P:531:ARG:O	1:P:561:ARG:HD2	2.08	0.53
1:P:547:GLY:HA2	1:P:908:ASP:O	2.09	0.53
1:P:777:LEU:HD21	1:P:889:ALA:HB1	1.91	0.53
1:A:1018:LEU:HD22	1:A:1019:VAL:H	1.72	0.53
1:B:927:THR:HG21	1:B:929:TYR:CZ	2.44	0.53
1:C:601:PHE:CZ	1:C:795:VAL:HG12	2.43	0.53
1:D:102:ASN:HA	1:D:201:ASP:OD1	2.09	0.53
1:D:441:THR:HG22	1:D:474:TRP:CZ2	2.44	0.53
1:D:590:GLY:O	1:D:592:PHE:N	2.42	0.53
1:D:774:LYS:O	1:D:775:GLN:NE2	2.41	0.53
1:E:30:HIS:ND1	1:E:33:PHE:CE2	2.76	0.53
1:E:118:ASN:O	1:E:119:PRO:C	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:515:VAL:HG21	1:H:281:GLU:CD	2.33	0.53
1:F:117:GLU:OE1	1:F:117:GLU:N	2.41	0.53
1:F:336:ARG:NH2	1:F:338:GLU:OE1	2.38	0.53
1:F:640:SER:OG	1:F:641:GLU:N	2.41	0.53
1:G:322:LEU:HD23	1:G:322:LEU:C	2.34	0.53
1:G:577:LYS:HB2	1:G:585:TRP:CE2	2.44	0.53
1:G:653:HIS:CD2	1:G:667:GLU:HG2	2.44	0.53
1:G:894:ARG:HD3	1:G:919:ASP:OD2	2.08	0.53
1:H:706:THR:OG1	1:H:709:SER:N	2.41	0.53
1:I:225:PHE:O	1:I:226:HIS:HD2	1.92	0.53
1:I:542:MET:HA	3:I:1233:HOH:O	2.09	0.53
1:K:145:GLY:HA3	1:K:210:ARG:HG3	1.90	0.53
1:K:309:TYR:O	1:K:330:VAL:N	2.40	0.53
1:K:655:MET:HG2	1:K:656:VAL:N	2.24	0.53
1:L:66:PRO:O	1:L:69:VAL:HG23	2.08	0.53
1:M:261:TRP:CH2	1:M:266:GLN:HB2	2.44	0.53
1:M:548:GLY:HA3	3:M:1222:HOH:O	2.09	0.53
1:N:237:ARG:HH11	1:N:237:ARG:CG	2.21	0.53
1:O:1005:ALA:O	1:O:1007:PHE:N	2.42	0.53
1:P:454:ILE:HG13	1:P:455:ILE:HG12	1.90	0.53
1:A:287:ASP:OD1	1:A:287:ASP:N	2.33	0.53
1:A:917:ARG:NH2	1:A:943:GLU:OE2	2.42	0.53
1:B:326:GLU:OE1	1:B:326:GLU:HA	2.07	0.53
1:B:340:GLY:O	1:B:341:LEU:HD23	2.09	0.53
1:C:217:LYS:NZ	1:C:324:GLU:OE2	2.42	0.53
1:C:719:GLN:NE2	1:C:914:CYS:HB3	2.23	0.53
1:D:141:ILE:HG13	1:D:214:LEU:HD21	1.91	0.53
1:E:309:TYR:O	1:E:329:ASP:HA	2.09	0.53
1:E:614:HIS:HB3	3:E:1287:HOH:O	2.09	0.53
1:F:347:LYS:NZ	1:F:643:LEU:O	2.41	0.53
1:G:147:ASN:HA	1:G:165:SER:HB3	1.90	0.53
1:G:246:MET:HE2	1:G:287:ASP:HB2	1.91	0.53
1:G:630:ARG:NH1	1:G:637:GLU:OE2	2.41	0.53
1:G:649:ASN:OD1	1:G:703:PRO:HD2	2.09	0.53
1:G:789:LEU:O	1:G:792:ASP:N	2.42	0.53
1:H:701:VAL:CG1	1:H:712:GLY:HA2	2.39	0.53
1:H:910:LEU:C	1:H:910:LEU:HD12	2.34	0.53
1:H:966:GLN:O	1:H:969:GLU:N	2.30	0.53
1:I:161:TYR:O	1:I:171:PHE:HZ	1.91	0.53
1:I:369:GLU:HG3	1:I:397:LEU:CD2	2.29	0.53
1:I:446:ARG:HE	1:I:447:ASP:CG	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:139:THR:O	1:J:173:LEU:N	2.38	0.53
1:K:210:ARG:NH1	1:K:395:HIS:HA	2.24	0.53
1:K:723:ALA:HB1	1:L:875:ASP:OD2	2.09	0.53
1:K:856:TYR:N	1:K:856:TYR:CD1	2.77	0.53
1:L:140:ARG:HB2	1:L:171:PHE:O	2.09	0.53
1:L:433:LEU:C	1:L:433:LEU:HD12	2.34	0.53
1:L:796:SER:OG	1:L:801:ILE:HA	2.09	0.53
1:M:14:ARG:HG2	1:M:14:ARG:NH1	2.24	0.53
1:M:333:ARG:HD3	1:M:451:PRO:HB3	1.90	0.53
1:M:651:LEU:O	1:M:700:VAL:HA	2.09	0.53
1:N:531:ARG:O	1:N:561:ARG:NH1	2.32	0.53
1:N:653:HIS:NE2	1:N:667:GLU:HG2	2.24	0.53
1:N:906:TYR:HB3	1:N:907:PRO:HD2	1.90	0.53
1:O:11:LEU:CD1	1:O:187:MET:HE1	2.38	0.53
1:O:467:ASN:OD1	1:O:467:ASN:N	2.35	0.53
1:O:829:THR:C	1:O:830:LEU:HD13	2.34	0.53
1:P:474:TRP:CE2	1:P:478:VAL:HG21	2.43	0.53
1:P:484:VAL:O	1:P:497:ASP:HB2	2.08	0.53
1:P:1018:LEU:HD22	1:P:1019:VAL:N	2.24	0.53
1:A:73:TRP:CZ2	1:A:185:ALA:HB1	2.44	0.52
1:B:18:ASN:OD1	1:B:20:GLY:N	2.36	0.52
1:B:167:LEU:HB3	1:B:168:PRO:HD2	1.90	0.52
1:D:246:MET:HG2	1:D:274:PHE:CE2	2.43	0.52
1:E:251:ARG:HB3	1:E:253:TYR:HE1	1.70	0.52
1:E:388:ARG:NH2	1:E:460:ASN:OD1	2.42	0.52
1:E:415:ILE:CD1	1:E:436:MET:HB3	2.39	0.52
1:F:304:GLU:C	1:F:305:ILE:HG12	2.32	0.52
1:H:240:LEU:O	1:H:293:LEU:N	2.37	0.52
1:H:745:MET:O	1:H:760:ARG:HG3	2.09	0.52
1:H:749:ILE:HD11	1:H:834:VAL:HG11	1.91	0.52
1:I:54:LEU:O	1:I:58:TRP:NE1	2.38	0.52
1:J:110:ASN:O	1:J:113:PHE:N	2.41	0.52
1:L:492:ASP:HB3	1:L:499:ILE:CG2	2.39	0.52
1:L:968:MET:O	1:L:968:MET:HG2	2.09	0.52
1:M:66:PRO:O	1:M:69:VAL:HG23	2.10	0.52
1:M:200:GLN:HG2	1:M:391:HIS:HB2	1.89	0.52
1:M:865:ALA:HA	1:M:1019:VAL:HG22	1.91	0.52
1:N:51:LEU:HD12	1:N:52:ARG:H	1.74	0.52
1:N:114:VAL:HG13	1:N:115:PRO:N	2.23	0.52
1:O:79:PRO:HG2	1:O:80:GLU:HG3	1.90	0.52
1:O:132:SER:HA	1:O:135:GLN:CD	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:718:GLN:HG2	1:O:720:TRP:CZ2	2.44	0.52
1:P:69:VAL:HG21	1:P:122:CYS:SG	2.49	0.52
1:P:698:VAL:O	1:P:717:TRP:HA	2.09	0.52
1:A:504:ALA:HB3	1:A:535:LEU:HD21	1.89	0.52
1:A:595:THR:CG2	1:A:596:PRO:HA	2.39	0.52
1:B:419:GLY:HA2	1:C:282:ARG:NH1	2.24	0.52
1:C:411:ASP:OD2	1:C:447:ASP:OD2	2.27	0.52
1:D:673:ALA:O	1:D:674:PRO:C	2.47	0.52
1:E:220:THR:HA	1:E:247:CYS:O	2.09	0.52
1:E:502:MET:HE2	1:E:537:GLU:CD	2.33	0.52
1:E:778:THR:HG22	1:E:887:GLN:H	1.73	0.52
1:E:830:LEU:HD13	1:E:830:LEU:N	2.24	0.52
1:E:844:HIS:O	1:E:845:GLN:C	2.52	0.52
1:E:844:HIS:O	1:E:847:LYS:N	2.41	0.52
1:F:881:ARG:HD3	1:F:987:ASP:OD1	2.10	0.52
1:F:937:LEU:HG	1:F:938:ARG:N	2.22	0.52
1:G:830:LEU:HB2	1:G:833:ALA:O	2.09	0.52
1:H:78:LEU:HB3	1:H:79:PRO:HD2	1.92	0.52
1:H:315:LEU:O	1:H:315:LEU:HG	2.09	0.52
1:H:746:ASP:HA	1:H:760:ARG:CG	2.21	0.52
1:I:141:ILE:HA	1:I:214:LEU:HD23	1.91	0.52
1:I:425:ARG:HH22	1:L:287:ASP:CG	2.17	0.52
1:J:360:HIS:HE1	1:J:362:LEU:HB2	1.74	0.52
1:K:634:GLN:O	1:K:682:LEU:HB2	2.09	0.52
1:K:724:GLU:HB2	1:L:874:SER:OG	2.09	0.52
1:L:89:ASN:O	1:L:90:TRP:C	2.51	0.52
1:L:140:ARG:HD2	1:L:170:GLU:OE1	2.09	0.52
1:L:461:GLU:HB3	3:L:1240:HOH:O	2.08	0.52
1:L:870:VAL:CG1	1:L:871:GLU:H	2.21	0.52
1:M:424:ASN:O	1:M:427:THR:N	2.42	0.52
1:M:859:ASP:OD1	1:M:861:SER:OG	2.26	0.52
1:N:572:ASP:OD1	1:N:603:MET:HB3	2.08	0.52
1:N:662:PRO:C	1:N:663:LEU:HD23	2.34	0.52
1:O:132:SER:O	1:O:135:GLN:N	2.42	0.52
1:O:133:TRP:C	1:O:134:LEU:HD23	2.35	0.52
1:P:84:VAL:CG1	1:P:85:VAL:N	2.72	0.52
1:P:778:THR:HG22	1:P:779:PRO:HD2	1.91	0.52
1:P:811:LYS:O	1:P:813:ALA:N	2.42	0.52
1:B:26:ARG:HD2	1:B:169:SER:HA	1.92	0.52
1:B:100:TYR:CE2	1:B:598:ASP:HB2	2.45	0.52
1:B:261:TRP:CE3	1:B:266:GLN:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:ARG:NH1	1:C:419:GLY:HA2	2.24	0.52
1:B:534:ILE:HG22	3:B:1262:HOH:O	2.09	0.52
1:B:559:TYR:HB2	1:B:562:LEU:HB2	1.91	0.52
1:B:579:ASP:OD1	1:B:583:ASN:N	2.38	0.52
1:B:881:ARG:NH1	1:B:987:ASP:OD2	2.32	0.52
1:B:944:LEU:O	1:B:951:TRP:HE3	1.92	0.52
1:C:18:ASN:ND2	1:C:21:VAL:HG23	2.24	0.52
1:C:1003:VAL:N	3:C:1240:HOH:O	2.42	0.52
1:D:71:GLU:O	1:D:72:SER:C	2.50	0.52
1:D:251:ARG:HD2	1:D:253:TYR:CE1	2.44	0.52
1:E:616:ALA:O	1:E:617:LEU:C	2.51	0.52
1:E:872:VAL:HG12	1:E:873:ALA:N	2.24	0.52
1:F:658:LEU:O	1:F:661:LYS:HD3	2.09	0.52
1:F:950:GLN:OE1	1:F:952:ARG:NE	2.31	0.52
1:G:126:THR:HA	1:G:182:ASN:O	2.10	0.52
1:G:383:ASN:ND2	1:G:625:GLN:HA	2.25	0.52
1:G:534:ILE:HD11	1:G:563:GLN:HB2	1.91	0.52
1:G:738:PRO:HB2	1:G:834:VAL:HG23	1.91	0.52
1:H:608:PHE:HB2	1:H:612:THR:OG1	2.10	0.52
1:H:827:ALA:HA	1:H:836:ILE:HD12	1.90	0.52
1:I:354:VAL:HG11	1:I:379:MET:HE2	1.90	0.52
1:K:658:LEU:HD12	1:K:658:LEU:C	2.34	0.52
1:K:694:LEU:O	1:K:722:LEU:N	2.39	0.52
1:L:123:TYR:CG	1:L:208:ILE:HD12	2.44	0.52
1:L:210:ARG:HH11	1:L:395:HIS:CA	2.21	0.52
1:M:12:GLN:OE1	1:M:12:GLN:HA	2.09	0.52
1:M:70:PRO:HG2	1:M:78:LEU:CD1	2.21	0.52
1:M:242:ALA:O	1:M:291:LEU:N	2.37	0.52
1:M:964:GLN:O	1:M:967:LEU:HB2	2.09	0.52
1:N:36:TRP:CB	1:N:42:ALA:HB2	2.39	0.52
1:N:421:VAL:O	1:N:425:ARG:NH1	2.42	0.52
1:N:877:PRO:O	1:N:878:HIS:C	2.49	0.52
1:P:79:PRO:CG	1:P:80:GLU:HG3	2.38	0.52
1:P:197:LEU:CD2	1:P:426:LEU:HD12	2.39	0.52
1:P:814:GLY:O	1:P:816:TYR:N	2.41	0.52
1:A:217:LYS:HZ3	1:A:324:GLU:CD	2.15	0.52
1:A:250:LEU:O	1:A:251:ARG:HG3	2.10	0.52
1:A:778:THR:HG22	1:A:779:PRO:HD2	1.90	0.52
1:B:106:PRO:HG3	1:B:204:ARG:HG3	1.90	0.52
1:C:125:LEU:HG	1:C:126:THR:N	2.23	0.52
1:C:890:GLN:HG3	1:C:891:VAL:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:896:ASN:HB2	1:C:919:ASP:OD1	2.09	0.52
1:F:271:THR:HG22	1:F:272:ALA:N	2.24	0.52
1:F:427:THR:O	1:F:465:GLY:HA3	2.10	0.52
1:G:131:GLU:HB2	1:G:135:GLN:NE2	2.23	0.52
1:G:322:LEU:HD23	1:G:324:GLU:H	1.74	0.52
1:G:418:HIS:ND1	1:G:461:GLU:OE2	2.43	0.52
1:G:473:ARG:NH1	1:G:477:SER:OG	2.42	0.52
1:G:559:TYR:CB	1:G:562:LEU:HD12	2.39	0.52
1:H:37:ARG:NH2	1:H:218:PRO:HD3	2.25	0.52
1:H:86:VAL:HG13	1:H:87:PRO:CA	2.35	0.52
1:H:391:HIS:NE2	1:H:460:ASN:ND2	2.57	0.52
1:H:857:ARG:O	1:H:857:ARG:HG2	2.07	0.52
1:H:896:ASN:O	1:H:944:LEU:HD12	2.09	0.52
1:H:936:GLY:CA	1:H:938:ARG:HH21	2.22	0.52
1:I:30:HIS:ND1	1:I:33:PHE:CE2	2.78	0.52
1:I:767:GLN:HG3	1:I:768:MET:N	2.23	0.52
1:J:5:ASP:OD2	1:J:157:ARG:HG2	2.10	0.52
1:J:73:TRP:O	1:J:183:ARG:NH1	2.29	0.52
1:K:114:VAL:HG13	1:K:115:PRO:HD2	1.92	0.52
1:K:843:GLN:HG2	1:K:848:THR:CG2	2.28	0.52
1:N:474:TRP:O	1:N:478:VAL:HG23	2.09	0.52
1:N:883:GLY:HA3	1:N:987:ASP:HA	1.90	0.52
1:O:131:GLU:HB2	1:O:135:GLN:HE21	1.73	0.52
1:O:499:ILE:O	1:O:533:LEU:HD13	2.10	0.52
1:P:60:PHE:CD2	1:P:61:ALA:N	2.78	0.52
1:P:546:LEU:O	1:P:909:ARG:HG3	2.09	0.52
1:A:40:GLU:HG3	1:A:43:ARG:NH1	2.24	0.52
1:A:579:ASP:N	1:A:583:ASN:O	2.32	0.52
1:A:595:THR:HG23	1:A:596:PRO:HA	1.90	0.52
1:B:414:ASN:HB3	3:B:1268:HOH:O	2.08	0.52
1:B:507:ASP:OD1	1:B:521:LYS:HE3	2.09	0.52
1:B:897:TRP:O	1:B:917:ARG:HA	2.10	0.52
1:B:946:TYR:CE2	1:B:982:THR:HG21	2.44	0.52
1:D:767:GLN:CD	1:D:768:MET:H	2.14	0.52
1:D:775:GLN:NE2	1:D:775:GLN:HA	2.23	0.52
1:E:86:VAL:HG13	1:E:87:PRO:HA	1.92	0.52
1:E:386:ALA:HB2	1:E:408:TYR:HB2	1.92	0.52
1:E:432:TRP:O	1:E:435:ALA:HB3	2.09	0.52
1:F:83:THR:C	1:F:84:VAL:HG23	2.34	0.52
1:F:894:ARG:CZ	1:F:921:PRO:HD3	2.39	0.52
1:G:37:ARG:HH21	1:G:218:PRO:HD3	1.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:878:HIS:ND1	1:G:878:HIS:N	2.53	0.52
1:H:763:GLY:HA3	1:H:822:LEU:HD22	1.92	0.52
1:H:827:ALA:HA	1:H:836:ILE:CD1	2.39	0.52
1:I:78:LEU:HB3	1:I:79:PRO:CD	2.40	0.52
1:I:138:GLN:N	1:I:217:LYS:O	2.39	0.52
1:I:251:ARG:CB	1:I:253:TYR:HE1	2.18	0.52
1:I:257:THR:OG1	1:I:271:THR:HG23	2.10	0.52
1:I:893:GLU:HA	1:I:893:GLU:OE1	2.08	0.52
1:K:7:LEU:HB2	1:K:71:GLU:OE2	2.09	0.52
1:K:952:ARG:O	1:K:1018:LEU:HD23	2.10	0.52
1:L:454:ILE:O	1:L:455:ILE:HG12	2.09	0.52
1:L:806:TRP:O	1:L:809:ARG:HB2	2.09	0.52
1:L:807:VAL:HG13	1:L:808:GLU:N	2.25	0.52
1:M:108:THR:HG22	1:M:109:VAL:H	1.74	0.52
1:M:256:VAL:O	1:M:271:THR:HG23	2.09	0.52
1:M:347:LYS:HG3	1:M:644:PHE:CE1	2.43	0.52
1:N:749:ILE:HD12	1:N:834:VAL:HG11	1.91	0.52
1:O:519:SER:O	1:O:520:ILE:C	2.49	0.52
1:O:650:GLU:CB	1:O:670:LEU:HB2	2.39	0.52
1:P:60:PHE:CG	1:P:61:ALA:N	2.77	0.52
1:P:114:VAL:HG21	1:P:191:TRP:O	2.08	0.52
1:P:246:MET:HG2	1:P:274:PHE:CE2	2.45	0.52
1:P:560:PRO:HD2	3:P:1208:HOH:O	2.08	0.52
1:P:637:GLU:HA	1:P:678:GLN:O	2.09	0.52
1:A:830:LEU:HB2	1:A:833:ALA:O	2.09	0.52
1:C:356:ARG:HH11	1:C:356:ARG:HG2	1.75	0.52
1:D:891:VAL:O	1:D:891:VAL:HG12	2.10	0.52
1:E:18:ASN:ND2	1:E:21:VAL:HG23	2.25	0.52
1:E:110:ASN:O	1:E:113:PHE:HB2	2.09	0.52
1:E:125:LEU:HG	1:E:126:THR:N	2.19	0.52
1:E:188:VAL:HG21	1:E:208:ILE:HG13	1.92	0.52
1:E:257:THR:OG1	1:E:271:THR:HG23	2.09	0.52
1:E:356:ARG:HG2	1:E:356:ARG:O	2.10	0.52
1:F:102:ASN:OD1	1:F:103:VAL:HG23	2.09	0.52
1:F:210:ARG:NH1	1:F:395:HIS:N	2.56	0.52
1:F:890:GLN:HG3	1:F:891:VAL:H	1.73	0.52
1:G:3:ILE:O	1:G:3:ILE:HG13	1.91	0.52
1:G:55:ASN:HD21	1:G:211:ASP:HB3	1.75	0.52
1:H:7:LEU:HB2	1:H:71:GLU:CD	2.35	0.52
1:H:309:TYR:O	1:H:330:VAL:N	2.34	0.52
1:H:928:PRO:O	1:H:929:TYR:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:53:SER:OG	1:I:55:ASN:HB2	2.09	0.52
1:I:789:LEU:O	1:I:790:ASP:C	2.50	0.52
1:I:970:THR:HG21	1:I:976:LEU:HG	1.92	0.52
1:J:597:ASN:HD21	1:J:599:ARG:H	1.54	0.52
1:J:645:ARG:NH2	1:J:650:GLU:OE1	2.42	0.52
1:K:391:HIS:NE2	1:K:460:ASN:ND2	2.57	0.52
1:K:416:GLU:OE2	1:K:418:HIS:HB2	2.09	0.52
1:K:731:PRO:O	1:K:732:ALA:C	2.53	0.52
1:L:91:GLN:HE21	1:L:190:ARG:NH2	2.08	0.52
1:L:173:LEU:O	1:L:175:ALA:N	2.43	0.52
1:L:336:ARG:HB2	1:L:343:LEU:HD12	1.92	0.52
1:M:30:HIS:CE1	1:M:33:PHE:CD2	2.98	0.52
1:M:166:ARG:HG2	1:M:414:ASN:ND2	2.24	0.52
1:M:603:MET:HE1	1:M:930:VAL:HG12	1.87	0.52
1:O:571:VAL:HG13	1:O:607:VAL:HG23	1.92	0.52
1:P:433:LEU:O	1:P:434:PRO:C	2.51	0.52
1:A:382:ASN:HA	1:A:621:LYS:HD2	1.91	0.52
1:B:100:TYR:CE1	1:B:602:CYS:HB3	2.45	0.52
1:B:260:LEU:C	1:B:267:VAL:HG23	2.33	0.52
1:B:410:VAL:O	1:B:410:VAL:HG12	2.10	0.52
1:B:621:LYS:NZ	1:B:714:ILE:O	2.29	0.52
1:B:698:VAL:HG22	1:B:718:GLN:C	2.35	0.52
1:C:36:TRP:C	1:C:37:ARG:HD3	2.34	0.52
1:C:362:LEU:HD21	1:C:576:ILE:CD1	2.29	0.52
1:E:16:TRP:HD1	1:E:17:GLU:HG3	1.69	0.52
1:E:84:VAL:HG12	1:E:85:VAL:H	1.75	0.52
1:E:99:ILE:HG22	1:E:100:TYR:N	2.23	0.52
1:E:316:HIS:ND1	1:E:316:HIS:N	2.56	0.52
1:F:608:PHE:HB2	1:F:612:THR:O	2.10	0.52
1:F:747:PHE:CE1	1:F:760:ARG:HD2	2.44	0.52
1:F:780:LEU:CD1	1:F:886:CYS:HB3	2.37	0.52
1:G:949:HIS:CD2	1:G:1020:TRP:HE1	2.28	0.52
1:H:30:HIS:ND1	1:H:33:PHE:CE2	2.78	0.52
1:H:457:SER:HA	1:H:485:GLN:O	2.10	0.52
1:J:429:ASP:OD1	1:J:431:ARG:HB2	2.09	0.52
1:J:806:TRP:CH2	1:J:809:ARG:NH2	2.78	0.52
1:J:867:THR:HG22	1:J:867:THR:O	2.10	0.52
1:K:420:MET:HE3	1:K:420:MET:CA	2.27	0.52
1:K:524:LEU:HD11	1:K:562:LEU:HG	1.92	0.52
1:K:625:GLN:NE2	1:K:716:ALA:HB1	2.24	0.52
1:K:1013:ARG:NH2	1:L:954:ASP:OD2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:789:LEU:O	1:L:793:ILE:HD12	2.10	0.52
1:M:27:LEU:CD1	1:M:140:ARG:HH21	2.23	0.52
1:M:45:ASP:O	1:M:46:ARG:O	2.28	0.52
1:M:79:PRO:HD2	1:M:80:GLU:OE2	2.10	0.52
1:M:333:ARG:HH11	1:M:451:PRO:CA	2.23	0.52
1:M:382:ASN:OD1	1:M:617:LEU:HG	2.10	0.52
1:M:426:LEU:HD13	1:M:432:TRP:CD2	2.45	0.52
1:N:14:ARG:HH12	1:N:16:TRP:HZ2	1.56	0.52
1:N:686:PRO:C	1:N:688:PRO:HD3	2.34	0.52
1:N:691:ALA:HA	1:N:725:ASN:HB3	1.92	0.52
1:O:842:TRP:HZ3	1:O:852:SER:HB2	1.75	0.52
1:P:782:ASP:OD2	1:P:842:TRP:HH2	1.93	0.52
1:P:787:ALA:HB3	1:P:934:GLU:N	2.25	0.52
1:P:899:GLY:HA2	1:P:915:PHE:HE1	1.75	0.52
1:A:423:MET:HB2	1:D:282:ARG:HG3	1.92	0.52
1:A:951:TRP:HE3	1:A:951:TRP:H	1.56	0.52
1:B:7:LEU:HD13	1:B:74:LEU:CD1	2.37	0.52
1:B:210:ARG:HH12	1:B:395:HIS:N	2.08	0.52
1:B:540:HIS:ND1	1:B:999:TRP:HZ3	2.06	0.52
1:B:708:TRP:CZ3	1:B:709:SER:HB3	2.44	0.52
1:B:777:LEU:HD12	1:B:889:ALA:HA	1.91	0.52
1:C:610:ASP:O	1:C:611:ARG:HB2	2.10	0.52
1:C:772:ASP:OD1	1:C:772:ASP:N	2.30	0.52
1:C:964:GLN:NE2	3:C:1232:HOH:O	2.28	0.52
1:D:14:ARG:NH1	1:D:16:TRP:CZ2	2.78	0.52
1:D:449:ASN:HB2	3:D:1295:HOH:O	2.09	0.52
1:E:223:SER:O	1:E:224:ASP:HB2	2.10	0.52
1:F:972:HIS:O	1:F:973:ARG:C	2.52	0.52
1:G:360:HIS:O	1:G:364:GLY:N	2.40	0.52
1:H:308:LEU:HD13	1:H:329:ASP:HB3	1.92	0.52
1:H:314:GLU:HB3	1:H:322:LEU:HD11	1.91	0.52
1:H:446:ARG:O	1:H:446:ARG:HG2	2.09	0.52
1:I:910:LEU:C	1:I:910:LEU:HD12	2.35	0.52
1:J:658:LEU:O	1:J:659:ASP:C	2.51	0.52
1:J:797:GLU:O	1:J:801:ILE:HD12	2.09	0.52
1:M:138:GLN:N	1:M:217:LYS:O	2.36	0.52
1:N:18:ASN:OD1	1:N:20:GLY:N	2.35	0.52
1:N:210:ARG:HH11	1:N:395:HIS:CB	2.22	0.52
1:O:225:PHE:HA	1:O:243:GLU:O	2.10	0.52
1:O:946:TYR:O	1:O:949:HIS:HB2	2.10	0.52
1:P:350:LEU:HD12	1:P:563:GLN:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:487:GLU:HB3	3:P:1219:HOH:O	2.10	0.52
1:P:696:LEU:HD12	1:P:696:LEU:C	2.31	0.52
1:A:658:LEU:O	1:A:660:GLY:N	2.42	0.52
1:D:685:LEU:CB	1:D:686:PRO:HD2	2.27	0.52
1:E:18:ASN:CB	1:E:21:VAL:HG23	2.40	0.52
1:E:225:PHE:C	1:E:226:HIS:HD2	2.17	0.52
1:E:352:ARG:NE	1:E:626:PHE:CE1	2.78	0.52
1:F:891:VAL:O	1:F:891:VAL:HG12	2.10	0.52
1:G:250:LEU:C	1:G:251:ARG:HG2	2.34	0.52
1:I:533:LEU:HD12	1:I:533:LEU:C	2.35	0.52
1:I:927:THR:HG21	1:I:929:TYR:CE2	2.45	0.52
1:J:12:GLN:HG2	1:K:4:THR:HB	1.90	0.52
1:J:132:SER:O	1:J:134:LEU:N	2.43	0.52
1:K:390:SER:HB2	1:K:391:HIS:CE1	2.44	0.52
1:K:444:VAL:O	1:K:448:ARG:HG2	2.10	0.52
1:K:929:TYR:O	1:K:930:VAL:C	2.48	0.52
1:L:227:VAL:HG23	1:L:449:ASN:CG	2.35	0.52
1:L:390:SER:HB2	1:L:391:HIS:CE1	2.45	0.52
1:L:663:LEU:HD13	1:L:688:PRO:HG3	1.92	0.52
1:M:654:TRP:CE2	1:M:666:GLY:HA3	2.44	0.52
1:N:519:SER:O	1:N:520:ILE:C	2.49	0.52
1:O:649:ASN:O	1:O:702:GLN:HA	2.10	0.52
1:O:837:THR:O	1:O:837:THR:HG22	2.09	0.52
1:O:844:HIS:O	1:O:845:GLN:C	2.52	0.52
1:O:949:HIS:HB3	1:O:951:TRP:CH2	2.45	0.52
1:P:130:ASP:O	1:P:133:TRP:HB2	2.10	0.52
1:P:200:GLN:HG2	1:P:391:HIS:HB2	1.92	0.52
1:P:636:ILE:HG22	1:P:637:GLU:N	2.24	0.52
1:P:767:GLN:CD	1:P:768:MET:H	2.17	0.52
1:P:897:TRP:CZ2	1:P:918:TRP:HB2	2.44	0.52
1:B:189:LEU:HD23	1:B:189:LEU:N	2.25	0.52
1:B:467:ASN:OD1	1:B:467:ASN:N	2.42	0.52
1:B:805:ALA:O	1:B:806:TRP:C	2.50	0.52
1:B:847:LYS:HG3	1:B:848:THR:N	2.24	0.52
1:C:359:HIS:NE2	1:C:573:GLN:HA	2.25	0.52
1:D:58:TRP:CE2	1:D:125:LEU:HD22	2.45	0.52
1:D:857:ARG:HH11	1:D:857:ARG:CG	2.17	0.52
1:E:255:ARG:NH2	1:E:318:ALA:HB2	2.25	0.52
1:E:588:TYR:O	1:E:589:GLY:C	2.50	0.52
1:E:651:LEU:HD12	1:E:668:VAL:O	2.10	0.52
1:F:202:MET:HE1	1:F:392:TYR:HE2	1.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:538:TYR:O	1:F:567:VAL:HA	2.10	0.52
1:G:217:LYS:HG2	1:G:218:PRO:HD2	1.91	0.52
1:G:696:LEU:HB2	1:G:722:LEU:HD11	1.91	0.52
1:H:107:ILE:O	1:H:107:ILE:HG13	2.04	0.52
1:H:464:HIS:HB2	1:H:489:GLY:HA3	1.91	0.52
1:H:869:ASP:OD2	1:H:1015:HIS:ND1	2.42	0.52
1:I:543:GLY:N	3:I:1233:HOH:O	2.38	0.52
1:I:637:GLU:HG3	1:I:679:LEU:HD21	1.92	0.52
1:I:757:GLN:HG2	1:I:758:PHE:N	2.24	0.52
1:J:127:PHE:N	1:J:127:PHE:CD1	2.78	0.52
1:J:502:MET:HG3	1:J:502:MET:O	2.09	0.52
1:K:79:PRO:CG	1:K:80:GLU:H	2.23	0.52
1:K:132:SER:O	1:K:135:GLN:HB2	2.09	0.52
1:K:310:ARG:HG3	1:K:311:ALA:H	1.75	0.52
1:K:357:HIS:CE1	1:K:568:TRP:HH2	2.25	0.52
1:K:448:ARG:HA	1:K:482:ARG:HH12	1.74	0.52
1:K:891:VAL:O	1:K:891:VAL:HG12	2.10	0.52
1:L:58:TRP:CZ2	1:L:125:LEU:HD23	2.45	0.52
1:L:139:THR:O	1:L:173:LEU:N	2.33	0.52
1:L:217:LYS:NZ	1:L:324:GLU:OE2	2.43	0.52
1:L:232:ASN:ND2	1:L:236:SER:OG	2.40	0.52
1:L:613:PRO:HB3	1:L:617:LEU:HD23	1.92	0.52
1:M:387:VAL:HG12	1:M:407:LEU:CD1	2.40	0.52
1:M:588:TYR:N	1:M:591:ASP:OD2	2.29	0.52
1:M:662:PRO:C	1:M:663:LEU:HD23	2.35	0.52
1:N:48:SER:OG	1:N:50:GLN:HB2	2.10	0.52
1:N:240:LEU:CD1	1:N:241:GLU:H	2.21	0.52
1:N:266:GLN:HE22	1:N:269:SER:HB2	1.73	0.52
1:P:16:TRP:NE1	1:P:17:GLU:HG3	2.25	0.52
1:P:571:VAL:HG11	1:P:611:ARG:HH12	1.73	0.52
1:P:706:THR:HG1	1:P:708:TRP:CG	2.28	0.52
1:A:59:ARG:NH2	1:A:81:ALA:O	2.40	0.51
1:B:890:GLN:HG3	1:B:891:VAL:N	2.25	0.51
1:C:737:ILE:HB	1:C:738:PRO:HD2	1.92	0.51
1:D:568:TRP:CD2	1:D:569:ASP:HB3	2.45	0.51
1:E:164:ASP:OD1	1:E:167:LEU:N	2.32	0.51
1:E:867:THR:O	1:E:867:THR:HG22	2.10	0.51
1:G:30:HIS:ND1	1:G:31:PRO:O	2.43	0.51
1:G:127:PHE:N	1:G:127:PHE:CD1	2.78	0.51
1:G:433:LEU:O	1:G:434:PRO:C	2.50	0.51
1:H:275:GLY:N	1:H:286:ALA:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:375:ASP:O	1:H:376:ILE:C	2.50	0.51
1:H:433:LEU:HD12	1:H:433:LEU:C	2.33	0.51
1:H:622:HIS:O	1:H:625:GLN:HG2	2.10	0.51
1:H:951:TRP:N	1:H:951:TRP:CE3	2.79	0.51
1:I:452:SER:O	1:I:454:ILE:HG23	2.09	0.51
1:K:232:ASN:CG	1:K:237:ARG:H	2.18	0.51
1:K:843:GLN:HB3	1:K:847:LYS:O	2.10	0.51
1:K:972:HIS:HB3	1:K:974:HIS:HD2	1.75	0.51
1:L:7:LEU:HD13	1:L:74:LEU:CD1	2.40	0.51
1:L:24:LEU:HB2	1:L:161:TYR:HB3	1.92	0.51
1:L:718:GLN:HG2	1:L:720:TRP:CZ2	2.46	0.51
1:L:759:ASN:OD1	1:L:760:ARG:N	2.43	0.51
1:L:807:VAL:O	1:L:811:LYS:HG3	2.09	0.51
1:L:986:ILE:HG21	1:L:1018:LEU:CD1	2.38	0.51
1:M:26:ARG:HD3	1:M:169:SER:OG	2.10	0.51
1:M:100:TYR:O	1:M:597:ASN:HA	2.10	0.51
1:M:222:ILE:CD1	1:M:313:VAL:HG12	2.40	0.51
1:M:433:LEU:HD12	1:M:433:LEU:C	2.35	0.51
1:M:474:TRP:CZ2	1:M:478:VAL:HG21	2.45	0.51
1:O:26:ARG:HD3	1:O:169:SER:OG	2.10	0.51
1:O:43:ARG:HD2	1:O:261:TRP:CG	2.45	0.51
1:O:835:LEU:HD12	1:O:857:ARG:HB2	1.92	0.51
1:O:897:TRP:CH2	1:O:918:TRP:HB2	2.45	0.51
1:P:146:VAL:HG22	1:P:208:ILE:HG12	1.90	0.51
1:P:261:TRP:CZ3	1:P:266:GLN:N	2.78	0.51
1:P:412:GLU:HG2	1:P:459:GLY:HA2	1.92	0.51
1:P:451:PRO:HD3	3:P:1263:HOH:O	2.09	0.51
1:P:968:MET:HG3	1:P:968:MET:O	2.10	0.51
1:A:202:MET:HE1	1:A:392:TYR:HE2	1.75	0.51
1:B:251:ARG:HB3	1:B:253:TYR:CE2	2.45	0.51
1:B:615:PRO:HA	1:B:903:GLN:OE1	2.10	0.51
1:B:987:ASP:OD2	1:B:990:HIS:HD2	1.92	0.51
1:C:258:VAL:HG12	1:C:258:VAL:O	2.10	0.51
1:D:30:HIS:HB2	1:D:31:PRO:HD2	1.93	0.51
1:D:68:ALA:O	1:D:70:PRO:HD3	2.10	0.51
1:D:651:LEU:HD13	1:D:669:PRO:HA	1.93	0.51
1:E:324:GLU:HG3	1:E:325:ALA:N	2.25	0.51
1:E:610:ASP:O	1:E:611:ARG:HB2	2.09	0.51
1:G:125:LEU:O	1:G:183:ARG:HA	2.11	0.51
1:G:433:LEU:C	1:G:433:LEU:HD12	2.34	0.51
1:G:949:HIS:HD2	1:G:1020:TRP:HE1	1.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:960:SER:HA	3:G:1282:HOH:O	2.10	0.51
1:H:218:PRO:O	1:H:221:GLN:NE2	2.43	0.51
1:H:881:ARG:NH1	1:H:987:ASP:OD2	2.29	0.51
1:I:23:GLN:HB3	1:I:26:ARG:CZ	2.40	0.51
1:I:90:TRP:O	1:I:93:HIS:HB2	2.10	0.51
1:I:234:ASP:OD1	1:I:236:SER:OG	2.29	0.51
1:I:930:VAL:HA	1:I:973:ARG:HD3	1.93	0.51
1:J:55:ASN:HD21	1:J:211:ASP:HB3	1.75	0.51
1:K:90:TRP:HZ2	1:K:119:PRO:HB2	1.76	0.51
1:K:769:TRP:HA	1:K:773:LYS:O	2.10	0.51
1:L:63:PHE:HB3	1:L:64:PRO:HD2	1.92	0.51
1:L:215:LEU:HD12	1:L:216:HIS:H	1.75	0.51
1:L:403:ASP:OD1	1:L:451:PRO:HD2	2.11	0.51
1:M:91:GLN:HG2	1:M:190:ARG:HH21	1.74	0.51
1:M:678:GLN:C	1:M:679:LEU:HD23	2.36	0.51
1:M:870:VAL:HG12	1:M:871:GLU:H	1.75	0.51
1:N:261:TRP:O	1:N:309:TYR:HD1	1.94	0.51
1:N:312:VAL:HG12	1:N:313:VAL:N	2.25	0.51
1:N:515:VAL:HG23	1:N:515:VAL:O	2.10	0.51
1:N:670:LEU:HD22	1:N:678:GLN:OE1	2.10	0.51
1:N:782:ASP:HB2	1:N:842:TRP:CH2	2.45	0.51
1:N:802:ASP:OD1	1:N:803:PRO:HD2	2.10	0.51
1:O:91:GLN:NE2	1:O:96:ASP:OD1	2.41	0.51
1:O:202:MET:CE	1:O:357:HIS:HD2	2.23	0.51
1:P:138:GLN:OE1	1:P:217:LYS:HB2	2.10	0.51
1:P:437:SER:O	1:P:441:THR:HG23	2.10	0.51
1:P:789:LEU:O	1:P:793:ILE:HG13	2.11	0.51
1:P:946:TYR:CD2	1:P:959:ILE:HD11	2.45	0.51
1:A:23:GLN:OE1	1:A:26:ARG:HB3	2.11	0.51
1:A:65:ALA:HB1	1:A:66:PRO:HD2	1.91	0.51
1:B:100:TYR:O	1:B:597:ASN:HA	2.11	0.51
1:B:224:ASP:O	1:B:225:PHE:HB3	2.10	0.51
1:B:304:GLU:C	1:B:305:ILE:HG13	2.35	0.51
1:B:352:ARG:HB2	1:B:385:ASN:HB2	1.91	0.51
1:C:767:GLN:HG3	1:C:768:MET:N	2.25	0.51
1:D:600:GLN:NE2	1:D:790:ASP:OD1	2.38	0.51
1:D:767:GLN:HE22	1:D:774:LYS:HB3	1.70	0.51
1:E:433:LEU:HD22	1:E:467:ASN:CG	2.35	0.51
1:F:218:PRO:O	1:F:221:GLN:NE2	2.40	0.51
1:F:859:ASP:OD1	1:F:861:SER:HB2	2.10	0.51
1:F:960:SER:HA	3:F:1280:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:335:VAL:CG2	1:G:454:ILE:HG22	2.40	0.51
1:I:285:TYR:CB	1:I:288:ARG:HD2	2.40	0.51
1:I:304:GLU:C	1:I:305:ILE:HG13	2.35	0.51
1:J:7:LEU:CD1	1:J:74:LEU:HD21	2.40	0.51
1:J:592:PHE:HB2	1:J:594:ASP:OD1	2.09	0.51
1:K:71:GLU:O	1:K:72:SER:C	2.53	0.51
1:K:649:ASN:OD1	1:K:704:ASN:OD1	2.29	0.51
1:L:13:ARG:O	1:L:14:ARG:HB2	2.09	0.51
1:L:126:THR:O	1:L:126:THR:HG22	2.10	0.51
1:L:906:TYR:HB3	1:L:907:PRO:CD	2.36	0.51
1:M:357:HIS:HE1	1:M:568:TRP:CH2	2.28	0.51
1:M:361:PRO:HA	1:M:575:LEU:HD23	1.92	0.51
1:M:413:ALA:CA	1:M:443:MET:HE2	2.40	0.51
1:M:928:PRO:HB2	1:M:973:ARG:NH1	2.25	0.51
1:N:369:GLU:HG2	1:N:397:LEU:CD2	2.25	0.51
1:N:411:ASP:OD2	1:N:447:ASP:OD2	2.28	0.51
1:O:7:LEU:O	1:O:8:ALA:C	2.53	0.51
1:P:86:VAL:HG21	1:P:123:TYR:CE2	2.45	0.51
1:P:147:ASN:HB3	1:P:206:SER:HA	1.92	0.51
1:A:352:ARG:CB	1:A:385:ASN:HB2	2.22	0.51
1:A:525:SER:O	1:A:526:LEU:C	2.52	0.51
1:B:65:ALA:HB1	1:B:66:PRO:HD2	1.92	0.51
1:B:473:ARG:O	1:B:476:LYS:HB2	2.11	0.51
1:B:579:ASP:N	1:B:583:ASN:O	2.38	0.51
1:C:369:GLU:O	1:C:370:GLN:C	2.53	0.51
1:D:36:TRP:CG	1:D:42:ALA:HB2	2.45	0.51
1:D:229:THR:HG21	1:D:332:PHE:CD2	2.45	0.51
1:D:371:THR:O	1:D:374:GLN:HB3	2.10	0.51
1:D:772:ASP:OD1	1:D:772:ASP:N	2.43	0.51
1:E:73:TRP:CZ2	1:E:122:CYS:HB3	2.46	0.51
1:G:240:LEU:HD22	1:G:260:LEU:HD13	1.91	0.51
1:H:456:TRP:HZ2	1:H:482:ARG:HH11	1.58	0.51
1:I:13:ARG:O	1:I:14:ARG:HB2	2.10	0.51
1:I:897:TRP:CE3	1:I:918:TRP:HB2	2.45	0.51
1:I:906:TYR:HB3	1:I:907:PRO:HD2	1.92	0.51
1:J:322:LEU:HG	1:J:323:ILE:N	2.25	0.51
1:K:661:LYS:HG2	1:K:663:LEU:CD2	2.38	0.51
1:K:767:GLN:OE1	1:K:768:MET:O	2.29	0.51
1:L:107:ILE:HG21	1:L:191:TRP:CD2	2.46	0.51
1:L:372:MET:SD	1:L:397:LEU:HD23	2.49	0.51
1:L:833:ALA:HB2	1:L:859:ASP:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:30:HIS:ND1	1:M:33:PHE:CE2	2.78	0.51
1:M:37:ARG:NH2	1:M:217:LYS:HA	2.26	0.51
1:M:115:PRO:HG2	1:M:191:TRP:CD1	2.46	0.51
1:M:157:ARG:O	1:M:159:VAL:HG23	2.10	0.51
1:M:210:ARG:HH11	1:M:395:HIS:CB	2.23	0.51
1:M:340:GLY:HA3	3:M:1278:HOH:O	2.10	0.51
1:M:920:LEU:O	1:M:921:PRO:O	2.29	0.51
1:N:210:ARG:NH1	1:N:395:HIS:N	2.58	0.51
1:N:317:THR:HG23	1:N:323:ILE:HD11	1.91	0.51
1:N:456:TRP:CZ2	1:N:482:ARG:NH1	2.79	0.51
1:N:505:ARG:N	3:N:1208:HOH:O	2.32	0.51
1:O:334:GLU:OE2	1:O:336:ARG:HD3	2.09	0.51
1:A:18:ASN:OD1	1:A:20:GLY:N	2.39	0.51
1:A:66:PRO:HD2	1:A:67:GLU:OE2	2.10	0.51
1:B:330:VAL:HG22	3:B:1267:HOH:O	2.10	0.51
1:C:440:VAL:O	1:C:443:MET:HB3	2.11	0.51
1:C:572:ASP:HB3	1:C:603:MET:HG2	1.91	0.51
1:D:166:ARG:HG2	1:D:414:ASN:ND2	2.24	0.51
1:D:548:GLY:O	1:D:551:LYS:HB2	2.11	0.51
1:D:653:HIS:HD2	1:D:667:GLU:HG2	1.71	0.51
1:D:906:TYR:OH	1:D:935:ASN:HA	2.10	0.51
1:E:123:TYR:CD1	1:E:123:TYR:N	2.79	0.51
1:E:158:TRP:CH2	1:E:160:GLY:HA2	2.45	0.51
1:E:786:ARG:CZ	1:E:789:LEU:HD11	2.40	0.51
1:E:902:PRO:O	1:E:938:ARG:NH1	2.43	0.51
1:F:344:LEU:HD23	1:F:344:LEU:C	2.36	0.51
1:F:970:THR:CG2	1:F:975:LEU:HB2	2.40	0.51
1:G:745:MET:O	1:G:746:ASP:HB3	2.11	0.51
1:H:16:TRP:CD1	1:H:17:GLU:HG2	2.45	0.51
1:H:620:ALA:O	1:H:621:LYS:C	2.47	0.51
1:I:73:TRP:O	1:I:183:ARG:NH1	2.40	0.51
1:I:315:LEU:O	1:I:315:LEU:HG	2.10	0.51
1:I:336:ARG:NH2	1:I:338:GLU:OE1	2.29	0.51
1:I:486:TYR:CE2	1:I:488:GLY:HA3	2.45	0.51
1:J:176:PHE:CD1	1:J:176:PHE:N	2.78	0.51
1:J:637:GLU:HB2	1:J:679:LEU:HD23	1.92	0.51
1:L:30:HIS:CE1	1:L:33:PHE:CD2	2.99	0.51
1:L:406:GLY:O	1:L:407:LEU:HD23	2.11	0.51
1:L:1020:TRP:HD1	1:L:1021:CYS:H	1.59	0.51
1:M:98:PRO:C	1:M:99:ILE:HD12	2.35	0.51
1:M:352:ARG:H	1:M:385:ASN:HD22	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:359:HIS:CD2	1:M:360:HIS:N	2.79	0.51
1:N:137:GLY:HA3	1:N:217:LYS:O	2.10	0.51
1:N:282:ARG:HD3	1:O:418:HIS:O	2.10	0.51
1:N:678:GLN:C	1:N:679:LEU:HD23	2.36	0.51
1:N:779:PRO:HG2	1:N:781:ARG:NH2	2.26	0.51
1:N:964:GLN:NE2	3:N:1235:HOH:O	2.43	0.51
1:O:36:TRP:CD2	1:O:42:ALA:HB2	2.45	0.51
1:O:210:ARG:HH11	1:O:395:HIS:HA	1.75	0.51
1:P:43:ARG:HH21	1:P:264:GLU:HG2	1.76	0.51
1:P:89:ASN:ND2	1:P:206:SER:O	2.43	0.51
1:P:176:PHE:CD1	1:P:176:PHE:N	2.77	0.51
1:P:502:MET:O	1:P:502:MET:HG3	2.11	0.51
1:P:569:ASP:OD1	1:P:569:ASP:N	2.44	0.51
1:P:917:ARG:NH2	1:P:943:GLU:OE2	2.43	0.51
1:A:240:LEU:HB3	1:A:293:LEU:HB2	1.93	0.51
1:A:645:ARG:NH2	1:A:650:GLU:OE2	2.44	0.51
1:A:806:TRP:CE2	1:A:991:MET:HE1	2.45	0.51
1:B:380:LYS:HE3	1:B:406:GLY:O	2.11	0.51
1:B:537:GLU:HA	1:B:566:PHE:O	2.10	0.51
1:B:937:LEU:HG	1:B:938:ARG:H	1.75	0.51
1:C:463:GLY:O	1:C:486:TYR:OH	2.28	0.51
1:C:499:ILE:HG13	1:C:532:PRO:O	2.11	0.51
1:D:502:MET:O	1:D:517:LYS:NZ	2.44	0.51
1:D:837:THR:O	1:D:837:THR:HG22	2.11	0.51
1:D:928:PRO:O	1:D:929:TYR:C	2.52	0.51
1:E:698:VAL:HG22	1:E:718:GLN:O	2.11	0.51
1:F:287:ASP:OD1	1:F:287:ASP:N	2.29	0.51
1:F:1020:TRP:HD1	1:F:1021:CYS:H	1.59	0.51
1:G:205:MET:N	3:G:1244:HOH:O	2.43	0.51
1:H:127:PHE:N	1:H:127:PHE:CD1	2.78	0.51
1:H:296:GLU:O	1:H:297:ASN:HB2	2.10	0.51
1:H:474:TRP:O	1:H:478:VAL:HG23	2.10	0.51
1:I:176:PHE:N	1:I:176:PHE:CD1	2.78	0.51
1:I:484:VAL:O	1:I:497:ASP:HB2	2.11	0.51
1:I:797:GLU:N	1:I:800:ARG:O	2.38	0.51
1:I:815:HIS:HE1	1:I:877:PRO:O	1.93	0.51
1:K:29:ALA:HB3	1:K:445:GLN:OE1	2.10	0.51
1:L:352:ARG:NH2	1:L:641:GLU:OE1	2.42	0.51
1:L:533:LEU:C	1:L:533:LEU:HD12	2.36	0.51
1:M:433:LEU:N	1:M:434:PRO:HD2	2.25	0.51
1:M:900:LEU:HD23	1:M:915:PHE:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:730:LEU:HD12	1:N:730:LEU:H	1.74	0.51
1:O:360:HIS:ND1	1:O:363:HIS:N	2.57	0.51
1:P:129:VAL:CG2	1:P:182:ASN:ND2	2.74	0.51
1:P:585:TRP:CE3	1:P:974:HIS:CE1	2.99	0.51
1:P:777:LEU:CG	1:P:889:ALA:HB2	2.39	0.51
1:P:811:LYS:O	1:P:814:GLY:N	2.44	0.51
1:A:856:TYR:CB	1:A:864:MET:HE2	2.40	0.51
1:B:875:ASP:OD1	1:B:875:ASP:N	2.44	0.51
1:C:859:ASP:OD1	1:C:861:SER:OG	2.29	0.51
1:D:577:LYS:O	1:D:585:TRP:N	2.44	0.51
1:E:23:GLN:HA	1:E:162:GLY:HA2	1.93	0.51
1:E:90:TRP:HE1	1:E:96:ASP:CG	2.19	0.51
1:E:99:ILE:CD1	1:E:190:ARG:NH1	2.73	0.51
1:G:745:MET:HB3	1:G:761:GLN:NE2	2.26	0.51
1:G:932:PRO:O	1:G:933:SER:HB3	2.11	0.51
1:H:27:LEU:HD12	1:H:140:ARG:HH11	1.74	0.51
1:H:542:MET:HA	1:H:604:ASN:HA	1.91	0.51
1:I:347:LYS:NZ	1:I:643:LEU:O	2.44	0.51
1:J:178:ARG:HB2	1:J:182:ASN:OD1	2.10	0.51
1:J:1004:SER:OG	1:J:1006:GLU:OE2	2.29	0.51
1:K:382:ASN:HB3	1:K:617:LEU:HD11	1.92	0.51
1:K:474:TRP:CZ2	1:K:478:VAL:HG21	2.46	0.51
1:K:638:VAL:HG21	1:K:670:LEU:HD21	1.91	0.51
1:K:656:VAL:CG1	1:K:694:LEU:HD11	2.41	0.51
1:K:775:GLN:HE21	1:K:775:GLN:N	2.08	0.51
1:K:906:TYR:N	1:K:906:TYR:CD1	2.79	0.51
1:K:972:HIS:HB2	1:K:974:HIS:CD2	2.46	0.51
1:M:422:PRO:CG	1:P:284:GLY:HA2	2.35	0.51
1:M:531:ARG:O	1:M:561:ARG:NH1	2.41	0.51
1:N:77:ASP:C	1:N:78:LEU:HD23	2.35	0.51
1:N:127:PHE:N	1:N:127:PHE:CD1	2.78	0.51
1:N:223:SER:HB3	1:N:247:CYS:HB2	1.92	0.51
1:N:282:ARG:HH12	1:O:419:GLY:HA2	1.73	0.51
1:N:504:ALA:HB3	1:N:535:LEU:CD2	2.40	0.51
1:N:599:ARG:HH22	1:N:795:VAL:HA	1.76	0.51
1:O:261:TRP:CE3	1:O:266:GLN:HB2	2.46	0.51
1:O:909:ARG:HH11	1:O:993:ILE:CD1	2.24	0.51
1:P:89:ASN:ND2	1:P:206:SER:H	2.06	0.51
1:P:486:TYR:CZ	1:P:488:GLY:HA3	2.46	0.51
1:P:842:TRP:HB2	1:P:850:PHE:CD2	2.45	0.51
1:P:897:TRP:CE2	1:P:918:TRP:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:948:PRO:HG2	1:P:949:HIS:ND1	2.25	0.51
1:P:955:PHE:N	1:P:955:PHE:CD1	2.79	0.51
1:P:985:ASN:ND2	3:P:1231:HOH:O	2.28	0.51
1:A:230:ARG:O	1:A:238:ALA:HA	2.11	0.51
1:C:578:TYR:HA	1:C:583:ASN:O	2.11	0.51
1:C:842:TRP:C	1:C:843:GLN:HG2	2.36	0.51
1:C:1015:HIS:CE1	1:D:1015:HIS:CE1	2.99	0.51
1:D:14:ARG:HH11	1:D:14:ARG:CG	2.11	0.51
1:D:92:MET:O	1:D:93:HIS:HD2	1.94	0.51
1:D:130:ASP:OD1	1:D:132:SER:N	2.36	0.51
1:D:810:TRP:CZ2	1:D:991:MET:HE2	2.46	0.51
1:E:388:ARG:NH1	1:E:536:CYS:HB2	2.26	0.51
1:E:588:TYR:C	1:E:589:GLY:O	2.54	0.51
1:F:217:LYS:HB3	1:F:221:GLN:NE2	2.25	0.51
1:F:304:GLU:O	1:F:305:ILE:HG12	2.11	0.51
1:G:101:THR:HG22	1:G:598:ASP:OD2	2.11	0.51
1:G:559:TYR:N	1:G:559:TYR:CD1	2.78	0.51
1:G:759:ASN:OD1	1:G:761:GLN:N	2.43	0.51
1:H:18:ASN:CB	1:H:21:VAL:HG23	2.40	0.51
1:H:668:VAL:HG12	1:H:669:PRO:CD	2.30	0.51
1:H:772:ASP:OD1	1:H:772:ASP:N	2.35	0.51
1:I:530:THR:HB	3:I:1290:HOH:O	2.11	0.51
1:I:651:LEU:HD13	1:I:669:PRO:HA	1.92	0.51
1:K:142:ILE:CG1	1:K:170:GLU:HG2	2.39	0.51
1:K:1015:HIS:CE1	1:L:1015:HIS:CE1	2.99	0.51
1:L:105:TYR:CE1	1:L:199:ASP:HB2	2.46	0.51
1:L:352:ARG:NE	1:L:626:PHE:CE1	2.79	0.51
1:L:413:ALA:HB2	1:L:443:MET:HE2	1.92	0.51
1:L:598:ASP:O	1:L:599:ARG:C	2.54	0.51
1:L:601:PHE:CZ	1:L:795:VAL:HG12	2.46	0.51
1:M:234:ASP:OD1	1:M:236:SER:OG	2.29	0.51
1:M:413:ALA:HB2	1:M:443:MET:HE1	1.92	0.51
1:M:510:GLN:O	1:M:517:LYS:N	2.41	0.51
1:M:789:LEU:HD12	1:M:792:ASP:OD2	2.11	0.51
1:N:68:ALA:O	1:N:70:PRO:HD3	2.11	0.51
1:N:763:GLY:HA3	1:N:822:LEU:CD2	2.40	0.51
1:N:1004:SER:O	1:N:1005:ALA:C	2.53	0.51
1:O:238:ALA:CB	1:O:298:PRO:HG3	2.41	0.51
1:P:30:HIS:CE1	1:P:33:PHE:CD2	2.99	0.51
1:P:118:ASN:O	1:P:120:THR:N	2.44	0.51
1:P:215:LEU:HD12	1:P:216:HIS:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:231:PHE:N	1:P:231:PHE:CD1	2.79	0.51
1:A:100:TYR:CZ	1:A:602:CYS:HB3	2.45	0.51
1:A:390:SER:HA	1:A:391:HIS:ND1	2.26	0.51
1:A:509:ASP:C	1:A:511:PRO:HD3	2.36	0.51
1:A:653:HIS:HD2	1:A:667:GLU:HB3	1.75	0.51
1:B:360:HIS:CE1	1:B:362:LEU:HB2	2.46	0.51
1:C:420:MET:HA	1:C:420:MET:HE3	1.92	0.51
1:C:785:THR:HA	3:C:1252:HOH:O	2.11	0.51
1:C:881:ARG:HH11	1:C:987:ASP:CG	2.18	0.51
1:E:41:GLU:O	1:E:43:ARG:N	2.43	0.51
1:E:44:THR:O	1:E:46:ARG:N	2.43	0.51
1:E:100:TYR:CE2	1:E:598:ASP:HB2	2.45	0.51
1:E:127:PHE:N	1:E:127:PHE:CD1	2.78	0.51
1:E:166:ARG:HB2	1:E:414:ASN:HD22	1.76	0.51
1:E:230:ARG:O	1:E:238:ALA:HA	2.11	0.51
1:E:637:GLU:HB3	3:E:1276:HOH:O	2.10	0.51
1:F:36:TRP:CE2	1:F:42:ALA:HA	2.45	0.51
1:F:100:TYR:CE1	1:F:602:CYS:HB3	2.46	0.51
1:F:319:ASP:N	1:F:319:ASP:OD1	2.40	0.51
1:F:457:SER:HA	1:F:485:GLN:O	2.10	0.51
1:G:168:PRO:O	1:G:442:ARG:NH2	2.41	0.51
1:G:411:ASP:OD2	1:G:447:ASP:OD2	2.29	0.51
1:G:616:ALA:O	1:G:619:GLU:N	2.44	0.51
1:H:57:GLU:HA	1:H:84:VAL:O	2.10	0.51
1:H:134:LEU:HD23	1:H:134:LEU:N	2.25	0.51
1:H:960:SER:HA	3:H:1281:HOH:O	2.11	0.51
1:I:26:ARG:O	1:I:27:LEU:O	2.28	0.51
1:I:34:ALA:HB3	1:I:36:TRP:CE3	2.45	0.51
1:I:210:ARG:HH12	1:I:394:ASN:C	2.18	0.51
1:I:446:ARG:NE	1:I:447:ASP:OD1	2.29	0.51
1:J:764:PHE:CE1	1:J:840:HIS:NE2	2.79	0.51
1:K:11:LEU:HD23	1:K:11:LEU:N	2.26	0.51
1:K:833:ALA:CB	1:K:859:ASP:HA	2.40	0.51
1:K:899:GLY:HA2	1:K:915:PHE:CD1	2.45	0.51
1:M:223:SER:HB3	1:M:247:CYS:HB2	1.93	0.51
1:M:333:ARG:HH11	1:M:451:PRO:C	2.19	0.51
1:M:548:GLY:O	1:M:549:PHE:C	2.51	0.51
1:M:955:PHE:CD1	1:M:955:PHE:N	2.79	0.51
1:N:166:ARG:HB2	1:N:414:ASN:HD22	1.76	0.51
1:N:262:GLN:HE22	1:N:299:LYS:CD	2.23	0.51
1:N:355:ASN:N	1:N:355:ASN:ND2	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:857:ARG:HH11	1:N:857:ARG:CG	2.23	0.51
1:O:78:LEU:HD22	1:O:79:PRO:CD	2.40	0.51
1:O:542:MET:HA	1:O:604:ASN:HA	1.93	0.51
1:O:895:VAL:CG2	1:O:922:LEU:HD12	2.41	0.51
1:P:36:TRP:CG	1:P:42:ALA:HB2	2.46	0.51
1:P:412:GLU:CG	1:P:459:GLY:HA2	2.41	0.51
1:P:702:GLN:HE22	1:P:708:TRP:HH2	1.58	0.51
1:A:987:ASP:OD2	1:A:990:HIS:HD2	1.92	0.51
1:A:1015:HIS:CE1	1:B:1015:HIS:CE1	2.99	0.51
1:B:411:ASP:OD2	1:B:447:ASP:OD2	2.29	0.51
1:B:638:VAL:O	1:B:677:LYS:HA	2.11	0.51
1:C:91:GLN:HG2	1:C:98:PRO:CA	2.41	0.51
1:C:723:ALA:HB1	1:D:875:ASP:OD2	2.11	0.51
1:D:873:ALA:O	1:D:876:THR:HG22	2.11	0.51
1:D:921:PRO:O	1:D:922:LEU:C	2.54	0.51
1:E:301:TRP:CH2	1:E:452:SER:HA	2.46	0.51
1:E:551:LYS:NZ	1:E:1006:GLU:OE2	2.41	0.51
1:E:856:TYR:HD2	1:E:864:MET:CE	2.24	0.51
1:F:128:ASN:HA	1:F:180:GLY:O	2.11	0.51
1:G:176:PHE:N	1:G:176:PHE:CD1	2.79	0.51
1:G:581:ASN:ND2	1:G:581:ASN:N	2.58	0.51
1:G:881:ARG:HD3	1:G:987:ASP:OD2	2.11	0.51
1:H:176:PHE:N	1:H:176:PHE:CD1	2.78	0.51
1:J:797:GLU:O	1:J:800:ARG:O	2.28	0.51
1:L:327:ALA:O	1:L:328:CYS:HB3	2.11	0.51
1:L:373:VAL:O	1:L:374:GLN:O	2.29	0.51
1:L:411:ASP:OD2	1:L:447:ASP:OD2	2.28	0.51
1:L:881:ARG:HD3	1:L:987:ASP:CG	2.36	0.51
1:M:120:THR:CG2	1:M:187:MET:HE3	2.41	0.51
1:M:154:CYS:HB3	1:M:159:VAL:HG21	1.93	0.51
1:M:784:PHE:CD2	1:M:850:PHE:CD2	2.99	0.51
1:N:118:ASN:O	1:N:120:THR:N	2.44	0.51
1:N:143:PHE:O	1:N:168:PRO:HA	2.10	0.51
1:N:155:ASN:OD1	1:N:182:ASN:HA	2.11	0.51
1:N:660:GLY:O	1:N:662:PRO:HD3	2.10	0.51
1:N:764:PHE:O	1:N:766:SER:N	2.44	0.51
1:N:856:TYR:N	1:N:856:TYR:CD1	2.79	0.51
1:O:588:TYR:O	1:O:591:ASP:HB2	2.11	0.51
1:P:937:LEU:HD23	1:P:938:ARG:C	2.35	0.51
1:A:78:LEU:O	1:A:79:PRO:C	2.54	0.50
1:A:202:MET:CE	1:A:357:HIS:HD2	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:TRP:CE2	1:A:569:ASP:HB3	2.46	0.50
1:A:610:ASP:O	1:A:611:ARG:HB2	2.10	0.50
1:A:619:GLU:HA	1:A:619:GLU:OE1	2.11	0.50
1:B:253:TYR:O	1:B:318:ALA:N	2.42	0.50
1:B:433:LEU:HB3	1:B:434:PRO:HD3	1.92	0.50
1:B:515:VAL:N	1:B:516:PRO:HD3	2.25	0.50
1:C:542:MET:HA	1:C:604:ASN:HA	1.93	0.50
1:D:429:ASP:OD1	1:D:431:ARG:HD3	2.10	0.50
1:D:599:ARG:HD2	1:D:600:GLN:OE1	2.10	0.50
1:F:53:SER:C	1:F:54:LEU:HD23	2.35	0.50
1:F:84:VAL:HG12	1:F:85:VAL:N	2.26	0.50
1:F:357:HIS:HE1	1:F:568:TRP:HH2	1.58	0.50
1:G:698:VAL:HG21	1:G:720:TRP:HH2	1.75	0.50
1:H:23:GLN:HB3	1:H:26:ARG:CZ	2.40	0.50
1:H:36:TRP:CG	1:H:42:ALA:HB2	2.46	0.50
1:H:46:ARG:HB3	1:H:47:PRO:HD2	1.92	0.50
1:I:246:MET:HE2	1:I:287:ASP:HB2	1.92	0.50
1:I:300:LEU:O	1:I:307:ASN:HB2	2.11	0.50
1:J:629:PHE:N	1:J:629:PHE:CD1	2.79	0.50
1:K:824:GLN:OE1	1:K:837:THR:HG22	2.11	0.50
1:L:57:GLU:HA	1:L:84:VAL:O	2.11	0.50
1:L:814:GLY:O	1:L:816:TYR:N	2.44	0.50
1:L:856:TYR:N	1:L:856:TYR:CD1	2.78	0.50
1:L:879:PRO:O	1:L:1009:LEU:HD12	2.11	0.50
1:L:927:THR:N	1:L:935:ASN:OD1	2.35	0.50
1:M:42:ALA:O	1:M:310:ARG:NH1	2.43	0.50
1:M:100:TYR:O	1:M:598:ASP:N	2.43	0.50
1:M:246:MET:HG2	1:M:274:PHE:CD2	2.46	0.50
1:M:315:LEU:HG	1:M:315:LEU:O	2.12	0.50
1:M:355:ASN:HD21	1:M:566:PHE:CB	2.25	0.50
1:M:427:THR:CG2	1:M:436:MET:HE1	2.41	0.50
1:N:343:LEU:HD23	1:N:348:PRO:HA	1.93	0.50
1:N:487:GLU:O	1:N:491:ALA:N	2.41	0.50
1:N:559:TYR:CB	1:N:562:LEU:HD12	2.40	0.50
1:N:655:MET:HG2	1:N:656:VAL:N	2.25	0.50
1:P:204:ARG:HH11	1:P:204:ARG:CG	2.17	0.50
1:P:331:GLY:N	1:P:451:PRO:HG3	2.26	0.50
1:P:541:ALA:CB	1:P:606:LEU:HD23	2.40	0.50
1:P:568:TRP:HE1	1:P:604:ASN:ND2	2.09	0.50
1:P:764:PHE:O	1:P:765:LEU:C	2.51	0.50
1:P:796:SER:HB2	1:P:802:ASP:N	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:847:LYS:HG3	1:P:848:THR:N	2.26	0.50
1:A:110:ASN:O	1:A:113:PHE:HB2	2.11	0.50
1:A:378:LEU:O	1:A:379:MET:C	2.54	0.50
1:A:686:PRO:C	1:A:688:PRO:HD3	2.36	0.50
1:B:73:TRP:CH2	1:B:185:ALA:HB1	2.45	0.50
1:B:308:LEU:HD13	1:B:329:ASP:HB3	1.92	0.50
1:B:540:HIS:ND1	1:B:999:TRP:CZ3	2.80	0.50
1:C:446:ARG:NE	1:C:447:ASP:OD1	2.43	0.50
1:E:149:ALA:O	1:E:150:PHE:HB3	2.11	0.50
1:E:417:THR:O	1:E:418:HIS:C	2.54	0.50
1:E:588:TYR:O	1:E:589:GLY:O	2.29	0.50
1:G:377:LEU:HD22	1:G:708:TRP:HA	1.92	0.50
1:G:635:THR:HG22	1:G:680:ILE:O	2.12	0.50
1:G:782:ASP:HB2	1:G:842:TRP:CH2	2.46	0.50
1:G:784:PHE:CD2	1:G:850:PHE:CD2	2.99	0.50
1:G:903:GLN:O	1:G:904:GLU:C	2.53	0.50
1:H:28:ALA:O	1:H:30:HIS:HD2	1.94	0.50
1:H:202:MET:HE3	1:H:357:HIS:CD2	2.46	0.50
1:H:229:THR:HG21	1:H:332:PHE:CD1	2.46	0.50
1:H:472:TYR:HD1	1:H:484:VAL:CG1	2.24	0.50
1:I:246:MET:HE2	1:I:287:ASP:HB3	1.93	0.50
1:J:14:ARG:NH1	1:J:16:TRP:HZ2	2.08	0.50
1:J:444:VAL:O	1:J:448:ARG:HG2	2.11	0.50
1:K:26:ARG:CZ	1:K:442:ARG:HH12	2.23	0.50
1:K:188:VAL:HG12	1:K:189:LEU:N	2.26	0.50
1:K:411:ASP:OD2	1:K:447:ASP:OD2	2.29	0.50
1:K:784:PHE:CD2	1:K:850:PHE:CD2	3.00	0.50
1:K:784:PHE:CD2	1:K:850:PHE:CE2	3.00	0.50
1:L:802:ASP:C	1:L:804:ASN:H	2.18	0.50
1:M:103:VAL:HG12	1:M:104:THR:N	2.25	0.50
1:M:130:ASP:O	1:M:133:TRP:N	2.45	0.50
1:M:140:ARG:HD3	1:M:142:ILE:HD11	1.91	0.50
1:M:513:PRO:O	1:M:514:ALA:HB3	2.10	0.50
1:M:538:TYR:O	1:M:539:ALA:HB3	2.12	0.50
1:N:145:GLY:N	1:N:210:ARG:HB2	2.27	0.50
1:N:273:PRO:O	1:N:274:PHE:O	2.28	0.50
1:O:73:TRP:CZ2	1:O:122:CYS:HB3	2.46	0.50
1:O:548:GLY:O	1:O:549:PHE:C	2.55	0.50
1:O:765:LEU:HD22	1:O:864:MET:HE1	1.93	0.50
1:O:937:LEU:HD11	1:O:956:GLN:HB2	1.92	0.50
1:O:949:HIS:CD2	1:O:1020:TRP:HE1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:202:MET:HE1	1:P:392:TYR:CE2	2.47	0.50
1:P:288:ARG:O	1:P:289:VAL:HG12	2.10	0.50
1:P:391:HIS:NE2	1:P:460:ASN:ND2	2.58	0.50
1:P:600:GLN:O	1:P:601:PHE:C	2.54	0.50
1:P:814:GLY:O	1:P:817:GLN:N	2.43	0.50
1:P:951:TRP:N	1:P:951:TRP:CE3	2.79	0.50
1:A:375:ASP:O	1:A:379:MET:HG3	2.10	0.50
1:A:844:HIS:O	1:A:845:GLN:C	2.53	0.50
1:B:227:VAL:HG12	1:B:228:ALA:N	2.27	0.50
1:B:420:MET:HA	1:B:420:MET:HE3	1.92	0.50
1:B:937:LEU:HG	1:B:938:ARG:N	2.26	0.50
1:C:958:ASN:HA	3:C:1273:HOH:O	2.12	0.50
1:D:118:ASN:O	1:D:119:PRO:C	2.54	0.50
1:F:685:LEU:O	1:F:687:GLN:NE2	2.43	0.50
1:F:789:LEU:HB2	1:F:792:ASP:OD2	2.12	0.50
1:F:856:TYR:CB	1:F:864:MET:HE2	2.31	0.50
1:G:114:VAL:HG13	1:G:115:PRO:CD	2.37	0.50
1:H:5:ASP:OD2	1:H:157:ARG:HG2	2.11	0.50
1:H:253:TYR:H	1:H:253:TYR:HD1	1.56	0.50
1:J:830:LEU:O	1:J:831:ALA:C	2.53	0.50
1:J:881:ARG:NH1	1:J:987:ASP:OD2	2.43	0.50
1:K:176:PHE:N	1:K:176:PHE:CD1	2.79	0.50
1:K:708:TRP:CD1	1:K:708:TRP:N	2.79	0.50
1:K:916:ASP:HB3	1:K:918:TRP:CZ2	2.46	0.50
1:L:57:GLU:HB3	1:L:83:THR:CG2	2.41	0.50
1:L:127:PHE:N	1:L:127:PHE:CD1	2.79	0.50
1:M:63:PHE:CB	1:M:64:PRO:HD2	2.40	0.50
1:M:79:PRO:HG2	1:M:80:GLU:CG	2.38	0.50
1:M:387:VAL:HG12	1:M:407:LEU:HD12	1.93	0.50
1:M:391:HIS:CD2	1:M:460:ASN:ND2	2.79	0.50
1:M:395:HIS:HE1	1:M:397:LEU:HB2	1.75	0.50
1:O:449:ASN:HB2	3:O:1204:HOH:O	2.11	0.50
1:O:708:TRP:CD1	1:O:708:TRP:H	2.29	0.50
1:P:229:THR:O	1:P:230:ARG:HG3	2.12	0.50
1:P:316:HIS:CB	1:P:322:LEU:HA	2.41	0.50
1:P:354:VAL:HG13	1:P:354:VAL:O	2.12	0.50
1:P:454:ILE:C	1:P:455:ILE:HG12	2.36	0.50
1:P:455:ILE:HG22	1:P:485:GLN:HG2	1.93	0.50
1:P:908:ASP:OD1	1:P:993:ILE:N	2.39	0.50
1:A:79:PRO:HG2	1:A:80:GLU:HG3	1.94	0.50
1:A:131:GLU:O	1:A:132:SER:C	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:740:LEU:HA	1:C:749:ILE:HD12	1.92	0.50
1:D:166:ARG:HG3	1:D:392:TYR:CB	2.41	0.50
1:D:200:GLN:O	1:D:202:MET:HG2	2.11	0.50
1:D:467:ASN:O	1:D:471:LEU:HD12	2.11	0.50
1:D:473:ARG:C	1:D:473:ARG:HD3	2.36	0.50
1:E:62:TRP:CZ3	1:E:64:PRO:N	2.79	0.50
1:E:106:PRO:HG3	1:E:204:ARG:NH1	2.27	0.50
1:E:654:TRP:CE2	1:E:666:GLY:HA3	2.46	0.50
1:E:951:TRP:N	1:E:951:TRP:CE3	2.80	0.50
1:F:486:TYR:CE2	1:F:488:GLY:HA3	2.46	0.50
1:F:695:TRP:NE1	1:F:915:PHE:CD2	2.79	0.50
1:G:306:PRO:O	1:G:307:ASN:C	2.53	0.50
1:H:92:MET:HE3	1:H:362:LEU:O	2.11	0.50
1:I:700:VAL:HG12	1:I:715:SER:OG	2.12	0.50
1:J:906:TYR:HB3	1:J:907:PRO:CD	2.39	0.50
1:K:226:HIS:N	1:K:226:HIS:CD2	2.79	0.50
1:K:437:SER:HA	1:K:471:LEU:CD2	2.42	0.50
1:K:582:GLY:O	1:K:584:PRO:HD3	2.12	0.50
1:L:23:GLN:HB3	1:L:26:ARG:HH21	1.75	0.50
1:L:506:VAL:HG23	1:L:552:TYR:CD1	2.47	0.50
1:L:897:TRP:CD2	1:L:918:TRP:HB2	2.47	0.50
1:L:1020:TRP:CD1	1:L:1021:CYS:N	2.78	0.50
1:M:35:SER:O	1:M:36:TRP:O	2.30	0.50
1:M:73:TRP:CD1	1:M:183:ARG:HH22	2.30	0.50
1:M:90:TRP:CD1	1:M:91:GLN:NE2	2.79	0.50
1:M:386:ALA:HB2	1:M:408:TYR:HB2	1.92	0.50
1:M:523:TRP:HD1	1:M:526:LEU:HD12	1.75	0.50
1:M:897:TRP:CZ3	1:M:918:TRP:HB2	2.47	0.50
1:N:226:HIS:N	1:N:226:HIS:CD2	2.80	0.50
1:N:560:PRO:HD2	3:N:1210:HOH:O	2.11	0.50
1:O:679:LEU:HD23	1:O:679:LEU:N	2.24	0.50
1:O:698:VAL:HG23	1:O:698:VAL:O	2.10	0.50
1:O:708:TRP:CD1	1:O:708:TRP:N	2.79	0.50
1:O:822:LEU:HD12	1:O:822:LEU:C	2.36	0.50
1:O:997:ASP:HB2	1:O:999:TRP:CZ2	2.47	0.50
1:P:7:LEU:CD1	1:P:74:LEU:HD11	2.41	0.50
1:P:223:SER:O	1:P:224:ASP:HB2	2.11	0.50
1:P:767:GLN:HE22	1:P:774:LYS:HB3	1.74	0.50
1:P:788:PRO:HD2	1:P:968:MET:HB2	1.91	0.50
1:P:859:ASP:OD1	1:P:861:SER:OG	2.27	0.50
1:P:959:ILE:HG23	1:P:959:ILE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:30:HIS:CE1	1:A:33:PHE:CD2	2.99	0.50
1:A:102:ASN:HB3	1:A:598:ASP:OD2	2.12	0.50
1:B:73:TRP:CZ2	1:B:122:CYS:HB3	2.47	0.50
1:B:287:ASP:OD2	1:C:425:ARG:NH2	2.44	0.50
1:C:789:LEU:HD11	1:C:993:ILE:HG22	1.92	0.50
1:D:102:ASN:ND2	1:D:201:ASP:HB2	2.26	0.50
1:D:904:GLU:OE2	1:D:929:TYR:OH	2.29	0.50
1:E:262:GLN:HB2	1:E:309:TYR:CE1	2.45	0.50
1:E:386:ALA:CB	1:E:408:TYR:HB2	2.42	0.50
1:E:683:PRO:O	1:E:684:GLU:C	2.54	0.50
1:E:822:LEU:HD12	1:E:822:LEU:C	2.35	0.50
1:F:377:LEU:CD2	1:F:708:TRP:HA	2.32	0.50
1:F:622:HIS:HB2	1:F:717:TRP:CZ2	2.47	0.50
1:G:190:ARG:NH2	1:G:204:ARG:O	2.41	0.50
1:G:320:GLY:O	1:G:321:THR:C	2.53	0.50
1:G:579:ASP:O	1:G:582:GLY:N	2.43	0.50
1:H:3:ILE:O	1:H:3:ILE:HG13	2.11	0.50
1:H:123:TYR:CG	1:H:208:ILE:HD12	2.46	0.50
1:H:126:THR:HA	1:H:182:ASN:O	2.11	0.50
1:H:600:GLN:NE2	1:H:790:ASP:OD1	2.45	0.50
1:H:806:TRP:CH2	1:H:809:ARG:NH2	2.80	0.50
1:H:870:VAL:HG12	1:H:871:GLU:N	2.27	0.50
1:H:910:LEU:HD12	1:H:910:LEU:O	2.12	0.50
1:I:23:GLN:HB3	1:I:26:ARG:NH2	2.26	0.50
1:J:83:THR:O	1:J:83:THR:HG22	2.10	0.50
1:J:316:HIS:HB3	1:J:322:LEU:HA	1.94	0.50
1:J:782:ASP:HA	1:J:884:LEU:HD23	1.93	0.50
1:K:101:THR:HG21	1:K:104:THR:O	2.12	0.50
1:K:844:HIS:O	1:K:845:GLN:O	2.30	0.50
1:L:59:ARG:CZ	1:L:81:ALA:HB3	2.42	0.50
1:L:300:LEU:HD13	1:L:345:ASN:ND2	2.27	0.50
1:L:317:THR:CG2	1:L:323:ILE:HD11	2.41	0.50
1:L:360:HIS:ND1	1:L:362:LEU:HB2	2.26	0.50
1:L:515:VAL:N	1:L:516:PRO:HD3	2.26	0.50
1:L:767:GLN:OE1	1:L:768:MET:O	2.29	0.50
1:M:33:PHE:HD1	1:M:326:GLU:CD	2.19	0.50
1:M:46:ARG:HB3	1:M:47:PRO:CD	2.41	0.50
1:M:73:TRP:O	1:M:183:ARG:NH1	2.43	0.50
1:M:316:HIS:HB2	1:M:321:THR:O	2.12	0.50
1:M:641:GLU:HB3	3:M:1274:HOH:O	2.12	0.50
1:M:653:HIS:HD2	1:M:667:GLU:CB	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:118:ASN:O	1:N:119:PRO:C	2.50	0.50
1:N:622:HIS:HB2	1:N:717:TRP:CZ2	2.47	0.50
1:O:127:PHE:N	1:O:127:PHE:CD1	2.80	0.50
1:O:383:ASN:HD22	1:O:625:GLN:HA	1.72	0.50
1:P:45:ASP:O	1:P:46:ARG:O	2.29	0.50
1:P:378:LEU:O	1:P:379:MET:C	2.55	0.50
1:P:402:CYS:HB3	1:P:407:LEU:HB3	1.93	0.50
1:A:237:ARG:HH11	1:A:237:ARG:CG	2.24	0.50
1:B:701:VAL:O	1:B:703:PRO:HD3	2.11	0.50
1:B:767:GLN:HG3	1:B:768:MET:N	2.27	0.50
1:D:3:ILE:O	1:D:6:SER:HB3	2.12	0.50
1:D:110:ASN:O	1:D:113:PHE:N	2.43	0.50
1:D:767:GLN:OE1	1:D:768:MET:N	2.29	0.50
1:E:115:PRO:HG2	1:E:191:TRP:HD1	1.75	0.50
1:E:187:MET:HG2	1:E:187:MET:O	2.11	0.50
1:E:440:VAL:O	1:E:444:VAL:HG23	2.11	0.50
1:E:823:LEU:HB2	1:E:839:ALA:O	2.11	0.50
1:E:830:LEU:HB3	1:F:828:ASP:CG	2.37	0.50
1:E:929:TYR:O	1:E:930:VAL:C	2.52	0.50
1:F:161:TYR:OH	1:F:163:GLN:NE2	2.36	0.50
1:F:868:VAL:O	1:F:869:ASP:OD1	2.29	0.50
1:G:83:THR:O	1:G:84:VAL:HG23	2.11	0.50
1:G:107:ILE:O	1:G:108:THR:C	2.53	0.50
1:G:165:SER:OG	1:G:198:GLU:OE1	2.30	0.50
1:G:824:GLN:O	1:G:838:THR:HA	2.12	0.50
1:H:230:ARG:O	1:H:238:ALA:HA	2.11	0.50
1:H:439:ARG:HG2	1:H:439:ARG:HH11	1.75	0.50
1:H:758:PHE:CZ	1:H:765:LEU:HD13	2.47	0.50
1:H:764:PHE:O	1:H:766:SER:N	2.44	0.50
1:H:959:ILE:HD11	1:H:982:THR:HG21	1.93	0.50
1:I:86:VAL:HA	1:I:87:PRO:C	2.36	0.50
1:I:822:LEU:HD11	1:I:824:GLN:O	2.11	0.50
1:I:1011:ALA:HB3	1:I:1014:TYR:CZ	2.46	0.50
1:J:400:THR:O	1:J:403:ASP:HB2	2.11	0.50
1:J:425:ARG:NH2	1:K:287:ASP:OD2	2.45	0.50
1:K:673:ALA:O	1:K:676:GLY:N	2.44	0.50
1:K:822:LEU:HD12	1:K:824:GLN:H	1.77	0.50
1:K:894:ARG:HH12	1:K:920:LEU:HA	1.77	0.50
1:K:920:LEU:HB3	1:K:921:PRO:HD2	1.93	0.50
1:L:110:ASN:O	1:L:113:PHE:HB2	2.12	0.50
1:L:433:LEU:HB3	1:L:434:PRO:CD	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:37:ARG:HH21	1:M:217:LYS:HA	1.77	0.50
1:M:84:VAL:HG12	1:M:85:VAL:N	2.27	0.50
1:N:103:VAL:O	1:N:199:ASP:OD2	2.29	0.50
1:N:114:VAL:CG2	1:N:115:PRO:HD2	2.38	0.50
1:N:165:SER:O	1:N:209:PHE:HZ	1.95	0.50
1:N:354:VAL:HG22	1:N:355:ASN:O	2.12	0.50
1:N:444:VAL:O	1:N:448:ARG:HG2	2.11	0.50
1:N:627:PHE:CZ	1:N:650:GLU:HG2	2.46	0.50
1:N:920:LEU:CB	1:N:921:PRO:HD2	2.41	0.50
1:O:99:ILE:HB	1:O:204:ARG:HB2	1.94	0.50
1:O:693:GLN:HG2	1:O:721:ARG:HD2	1.94	0.50
1:O:824:GLN:O	1:O:838:THR:HA	2.11	0.50
1:P:7:LEU:N	1:P:71:GLU:OE2	2.44	0.50
1:P:222:ILE:HD13	1:P:313:VAL:CG1	2.40	0.50
1:P:375:ASP:OD1	1:P:375:ASP:N	2.44	0.50
1:P:451:PRO:O	1:P:452:SER:C	2.53	0.50
1:P:767:GLN:OE1	1:P:768:MET:O	2.29	0.50
1:A:7:LEU:O	1:A:8:ALA:C	2.53	0.50
1:B:646:HIS:CD2	1:B:647:SER:N	2.80	0.50
1:C:178:ARG:HB2	1:C:182:ASN:OD1	2.12	0.50
1:C:230:ARG:O	1:C:238:ALA:HA	2.12	0.50
1:D:959:ILE:HD12	1:D:984:LEU:HD13	1.94	0.50
1:E:100:TYR:HB2	1:E:203:TRP:CE3	2.47	0.50
1:E:443:MET:HE3	1:E:456:TRP:CE3	2.46	0.50
1:E:810:TRP:CH2	1:E:880:ALA:HB2	2.47	0.50
1:E:959:ILE:C	3:E:1281:HOH:O	2.53	0.50
1:G:382:ASN:ND2	1:G:617:LEU:HD21	2.27	0.50
1:G:929:TYR:O	1:G:930:VAL:C	2.55	0.50
1:H:25:ASN:ND2	1:H:158:TRP:CZ3	2.80	0.50
1:H:43:ARG:HH21	1:H:264:GLU:HG2	1.69	0.50
1:H:253:TYR:N	1:H:253:TYR:CD1	2.79	0.50
1:H:588:TYR:O	1:H:589:GLY:O	2.29	0.50
1:H:875:ASP:OD1	1:H:875:ASP:N	2.29	0.50
1:H:955:PHE:HB2	1:H:987:ASP:O	2.11	0.50
1:I:65:ALA:HB1	1:I:66:PRO:HD2	1.94	0.50
1:I:755:ARG:HB2	1:I:769:TRP:HB2	1.94	0.50
1:J:46:ARG:HB3	1:J:47:PRO:HD2	1.93	0.50
1:K:118:ASN:O	1:K:119:PRO:C	2.48	0.50
1:K:857:ARG:HG2	1:K:857:ARG:NH1	2.23	0.50
1:K:955:PHE:CD2	1:K:986:ILE:HG23	2.46	0.50
1:L:37:ARG:NH2	1:L:218:PRO:HD3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:106:PRO:HG3	1:L:204:ARG:HG3	1.94	0.50
1:L:354:VAL:HG23	1:L:567:VAL:O	2.10	0.50
1:M:3:ILE:O	1:M:9:VAL:HG21	2.12	0.50
1:M:60:PHE:CG	1:M:61:ALA:N	2.80	0.50
1:M:718:GLN:HG3	1:M:719:GLN:N	2.27	0.50
1:M:792:ASP:O	1:M:805:ALA:HB1	2.11	0.50
1:M:797:GLU:N	1:M:800:ARG:O	2.42	0.50
1:M:837:THR:O	1:M:837:THR:HG22	2.11	0.50
1:N:136:GLU:O	1:N:137:GLY:O	2.29	0.50
1:N:208:ILE:HG22	1:N:208:ILE:O	2.10	0.50
1:O:571:VAL:HG13	1:O:607:VAL:CG2	2.42	0.50
1:O:788:PRO:HD2	1:O:968:MET:HB2	1.93	0.50
1:P:331:GLY:H	1:P:451:PRO:HG3	1.75	0.50
1:P:458:LEU:N	1:P:458:LEU:HD23	2.26	0.50
1:P:619:GLU:HA	1:P:912:ALA:HB2	1.93	0.50
1:P:625:GLN:CD	1:P:716:ALA:HB1	2.36	0.50
1:A:595:THR:HA	1:A:596:PRO:C	2.37	0.50
1:B:949:HIS:CD2	1:B:1020:TRP:HE1	2.30	0.50
1:C:389:CYS:HB3	1:C:394:ASN:HD21	1.77	0.50
1:D:368:ASP:O	1:D:369:GLU:C	2.55	0.50
1:E:33:PHE:HB3	1:E:326:GLU:OE2	2.11	0.50
1:E:60:PHE:CD1	1:E:61:ALA:N	2.80	0.50
1:E:395:HIS:CE1	1:E:397:LEU:H	2.30	0.50
1:E:579:ASP:CG	1:E:583:ASN:H	2.18	0.50
1:E:708:TRP:CZ3	1:E:709:SER:HB3	2.47	0.50
1:F:92:MET:O	1:F:93:HIS:HD2	1.94	0.50
1:F:211:ASP:OD1	1:F:211:ASP:N	2.45	0.50
1:G:107:ILE:O	1:G:107:ILE:HG12	2.11	0.50
1:G:335:VAL:HG21	1:G:454:ILE:HG22	1.93	0.50
1:G:501:PRO:HD2	1:G:533:LEU:HD11	1.93	0.50
1:G:649:ASN:O	1:G:702:GLN:HA	2.12	0.50
1:G:821:ALA:O	1:G:840:HIS:HB3	2.12	0.50
1:H:502:MET:HE2	1:H:537:GLU:OE1	2.10	0.50
1:H:548:GLY:O	1:H:549:PHE:O	2.29	0.50
1:H:797:GLU:O	1:H:800:ARG:O	2.30	0.50
1:I:89:ASN:O	1:I:90:TRP:C	2.53	0.50
1:I:284:GLY:HA2	1:L:422:PRO:HG3	1.92	0.50
1:I:313:VAL:O	1:I:313:VAL:HG12	2.12	0.50
1:I:501:PRO:HG3	1:I:523:TRP:CZ3	2.47	0.50
1:I:959:ILE:O	1:I:959:ILE:HG23	2.12	0.50
1:K:11:LEU:HD13	1:K:66:PRO:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:989:PHE:CE1	1:K:1014:TYR:HB3	2.47	0.50
1:K:1020:TRP:CD1	1:K:1021:CYS:N	2.79	0.50
1:L:399:TYR:CE2	1:L:446:ARG:NH2	2.80	0.50
1:L:1022:GLN:C	1:L:1023:LYS:HG3	2.36	0.50
1:M:91:GLN:HG2	1:M:190:ARG:NH2	2.27	0.50
1:O:369:GLU:O	1:O:372:MET:HB2	2.12	0.50
1:O:505:ARG:HD3	1:O:508:GLU:OE1	2.12	0.50
1:O:822:LEU:HD12	1:O:823:LEU:H	1.72	0.50
1:P:7:LEU:HD11	1:P:74:LEU:HG	1.93	0.50
1:A:7:LEU:HD13	1:A:74:LEU:CD1	2.40	0.50
1:A:399:TYR:CE1	1:A:446:ARG:NH2	2.80	0.50
1:A:736:ALA:O	1:A:737:ILE:HG22	2.12	0.50
1:A:832:ASP:O	1:A:833:ALA:HB2	2.11	0.50
1:A:896:ASN:HB3	1:A:945:ASN:HB2	1.93	0.50
1:B:282:ARG:HD2	1:C:418:HIS:O	2.12	0.50
1:C:308:LEU:HD13	1:C:329:ASP:HB3	1.93	0.50
1:D:654:TRP:NE1	1:D:666:GLY:HA3	2.27	0.50
1:D:932:PRO:HG2	1:D:970:THR:O	2.12	0.50
1:E:6:SER:O	1:E:10:VAL:HG23	2.11	0.50
1:E:91:GLN:HG2	1:E:190:ARG:NH2	2.26	0.50
1:E:574:SER:C	1:E:575:LEU:HG	2.36	0.50
1:E:1004:SER:OG	1:E:1006:GLU:OE2	2.29	0.50
1:F:258:VAL:HG12	1:F:293:LEU:HD11	1.93	0.50
1:G:343:LEU:HD23	1:G:348:PRO:CA	2.42	0.50
1:H:245:GLN:HG2	1:H:288:ARG:HG2	1.92	0.50
1:H:559:TYR:HB2	1:H:562:LEU:CD1	2.41	0.50
1:H:608:PHE:CD1	1:H:614:HIS:HE1	2.30	0.50
1:I:282:ARG:HD2	1:L:418:HIS:O	2.11	0.50
1:I:301:TRP:HD1	1:I:307:ASN:O	1.94	0.50
1:I:317:THR:HG23	1:I:323:ILE:HD11	1.93	0.50
1:I:1015:HIS:CE1	1:J:1015:HIS:CE1	2.99	0.50
1:J:377:LEU:CD2	1:J:708:TRP:HA	2.34	0.50
1:K:60:PHE:CD1	1:K:61:ALA:N	2.79	0.50
1:K:168:PRO:O	1:K:442:ARG:NH2	2.45	0.50
1:K:1015:HIS:ND1	1:L:1015:HIS:CE1	2.80	0.50
1:L:151:HIS:CE1	1:L:161:TYR:CD1	2.99	0.50
1:L:373:VAL:O	1:L:374:GLN:C	2.55	0.50
1:L:673:ALA:O	1:L:674:PRO:C	2.55	0.50
1:M:110:ASN:N	1:M:111:PRO:HD3	2.27	0.50
1:M:429:ASP:OD1	1:M:431:ARG:HD3	2.11	0.50
1:M:649:ASN:OD1	1:M:704:ASN:OD1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:100:TYR:CE1	1:N:602:CYS:HB3	2.47	0.50
1:O:123:TYR:N	1:O:123:TYR:CD1	2.80	0.50
1:O:223:SER:O	1:O:224:ASP:HB2	2.11	0.50
1:O:895:VAL:HG21	1:O:922:LEU:HD12	1.94	0.50
1:O:1004:SER:HB2	1:O:1006:GLU:OE2	2.12	0.50
1:P:440:VAL:HG11	1:P:475:ILE:HD11	1.91	0.50
1:P:902:PRO:HD3	1:P:918:TRP:CZ2	2.46	0.50
1:C:971:SER:OG	1:C:972:HIS:ND1	2.39	0.49
1:D:223:SER:O	1:D:224:ASP:HB2	2.11	0.49
1:D:592:PHE:HB2	1:D:594:ASP:OD1	2.12	0.49
1:D:867:THR:O	1:D:867:THR:HG22	2.12	0.49
1:E:33:PHE:HD1	1:E:326:GLU:CD	2.19	0.49
1:E:118:ASN:HB2	1:E:119:PRO:HD2	1.94	0.49
1:E:261:TRP:CE3	1:E:266:GLN:HA	2.47	0.49
1:E:315:LEU:C	1:E:315:LEU:HD12	2.37	0.49
1:E:549:PHE:HE2	1:E:620:ALA:HA	1.75	0.49
1:F:689:GLU:O	1:F:690:SER:O	2.30	0.49
1:G:854:LYS:HA	1:G:867:THR:O	2.12	0.49
1:H:161:TYR:O	1:H:171:PHE:HZ	1.95	0.49
1:H:832:ASP:O	1:H:833:ALA:HB2	2.12	0.49
1:H:872:VAL:HG12	1:H:873:ALA:N	2.27	0.49
1:H:959:ILE:HG13	1:H:984:LEU:HD12	1.94	0.49
1:I:271:THR:HG22	1:I:272:ALA:H	1.77	0.49
1:I:856:TYR:N	1:I:856:TYR:CD1	2.79	0.49
1:I:876:THR:O	1:I:877:PRO:C	2.51	0.49
1:J:498:ILE:HG22	1:J:499:ILE:N	2.25	0.49
1:J:814:GLY:HA2	3:J:1210:HOH:O	2.12	0.49
1:K:240:LEU:HB3	1:K:293:LEU:HB2	1.94	0.49
1:K:356:ARG:HD2	1:K:379:MET:HE1	1.93	0.49
1:L:315:LEU:C	1:L:315:LEU:HD12	2.37	0.49
1:L:514:ALA:C	1:L:515:VAL:HG22	2.37	0.49
1:M:649:ASN:ND2	1:M:702:GLN:HG2	2.27	0.49
1:M:897:TRP:CE3	1:M:918:TRP:HB2	2.47	0.49
1:N:202:MET:O	1:N:204:ARG:HD3	2.11	0.49
1:N:237:ARG:HD2	1:N:296:GLU:HG2	1.93	0.49
1:N:557:ARG:HE	1:N:641:GLU:CD	2.20	0.49
1:N:1004:SER:OG	1:N:1006:GLU:OE2	2.30	0.49
1:O:149:ALA:O	1:O:150:PHE:HB3	2.11	0.49
1:O:618:THR:HG22	1:O:912:ALA:HB1	1.93	0.49
1:O:652:LEU:O	1:O:667:GLU:HA	2.12	0.49
1:O:943:GLU:OE2	1:O:945:ASN:ND2	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:374:GLN:O	1:P:375:ASP:C	2.54	0.49
1:P:553:TRP:HB2	1:P:623:GLN:OE1	2.12	0.49
1:P:559:TYR:N	1:P:559:TYR:CD1	2.79	0.49
1:P:646:HIS:CD2	1:P:647:SER:N	2.80	0.49
1:A:881:ARG:HD3	1:A:987:ASP:OD2	2.12	0.49
1:B:419:GLY:C	1:C:282:ARG:HH11	2.19	0.49
1:B:427:THR:HG21	1:B:462:SER:HB3	1.94	0.49
1:B:531:ARG:HB3	1:B:532:PRO:HD2	1.93	0.49
1:C:941:THR:HG22	1:C:942:ARG:N	2.28	0.49
1:D:91:GLN:HB3	1:D:98:PRO:HD3	1.94	0.49
1:D:237:ARG:HG3	1:D:237:ARG:HH11	1.76	0.49
1:D:262:GLN:HE22	1:D:299:LYS:HD2	1.76	0.49
1:D:573:GLN:HB2	1:D:602:CYS:HB2	1.95	0.49
1:F:655:MET:CE	1:F:662:PRO:HB3	2.41	0.49
1:H:102:ASN:HB2	1:H:201:ASP:OD2	2.12	0.49
1:H:218:PRO:HD2	1:H:324:GLU:OE2	2.12	0.49
1:I:359:HIS:CD2	1:I:360:HIS:N	2.80	0.49
1:J:356:ARG:HG2	1:J:356:ARG:NH1	2.18	0.49
1:K:879:PRO:O	1:K:880:ALA:C	2.55	0.49
1:K:1013:ARG:HG3	1:K:1013:ARG:NH1	2.27	0.49
1:L:391:HIS:CD2	1:L:460:ASN:ND2	2.79	0.49
1:L:433:LEU:HD12	1:L:433:LEU:O	2.11	0.49
1:L:948:PRO:HD2	1:L:949:HIS:ND1	2.27	0.49
1:M:129:VAL:HG23	1:M:182:ASN:ND2	2.22	0.49
1:O:7:LEU:CD1	1:O:74:LEU:HD11	2.37	0.49
1:O:542:MET:HG3	1:O:603:MET:O	2.12	0.49
1:O:577:LYS:O	1:O:584:PRO:HA	2.12	0.49
1:O:650:GLU:HB3	1:O:670:LEU:HD12	1.93	0.49
1:O:657:ALA:O	1:O:694:LEU:HD12	2.12	0.49
1:P:427:THR:O	1:P:467:ASN:ND2	2.45	0.49
1:P:958:ASN:HA	3:P:1272:HOH:O	2.12	0.49
1:P:1018:LEU:CD2	1:P:1019:VAL:H	2.25	0.49
1:A:555:ALA:O	1:A:556:PHE:C	2.54	0.49
1:B:43:ARG:O	1:B:310:ARG:HD3	2.12	0.49
1:B:783:GLN:NE2	1:B:985:ASN:OD1	2.40	0.49
1:C:719:GLN:HE22	1:C:914:CYS:HB3	1.78	0.49
1:C:1013:ARG:NH1	1:D:954:ASP:OD2	2.45	0.49
1:D:7:LEU:O	1:D:11:LEU:HG	2.12	0.49
1:D:473:ARG:HD3	1:D:473:ARG:O	2.12	0.49
1:D:589:GLY:HA3	1:D:599:ARG:CA	2.43	0.49
1:E:410:VAL:O	1:E:410:VAL:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:797:GLU:N	1:E:800:ARG:O	2.34	0.49
1:F:685:LEU:CB	1:F:686:PRO:HD2	2.30	0.49
1:G:65:ALA:HB1	1:G:67:GLU:HG3	1.94	0.49
1:G:360:HIS:CE1	1:G:363:HIS:ND1	2.81	0.49
1:H:26:ARG:HG2	3:H:1225:HOH:O	2.11	0.49
1:I:383:ASN:HD22	1:I:625:GLN:HA	1.75	0.49
1:J:272:ALA:HB1	1:J:273:PRO:HD2	1.95	0.49
1:J:817:GLN:HG2	3:J:1210:HOH:O	2.11	0.49
1:K:127:PHE:N	1:K:127:PHE:CD1	2.80	0.49
1:K:402:CYS:HB3	1:K:407:LEU:HB2	1.92	0.49
1:L:30:HIS:O	1:L:31:PRO:O	2.29	0.49
1:L:359:HIS:CD2	1:L:360:HIS:N	2.80	0.49
1:L:361:PRO:CD	1:L:362:LEU:H	2.24	0.49
1:M:69:VAL:HG12	1:M:70:PRO:N	2.27	0.49
1:M:287:ASP:CG	1:P:425:ARG:HH22	2.19	0.49
1:M:411:ASP:HB3	1:M:443:MET:SD	2.52	0.49
1:M:465:GLY:O	1:M:468:HIS:HB2	2.13	0.49
1:M:538:TYR:O	1:M:567:VAL:HG13	2.12	0.49
1:M:578:TYR:HA	1:M:583:ASN:O	2.11	0.49
1:M:640:SER:OG	1:M:642:TYR:HB2	2.12	0.49
1:M:972:HIS:HB2	1:M:975:LEU:HG	1.93	0.49
1:N:53:SER:C	1:N:54:LEU:HD23	2.37	0.49
1:N:140:ARG:O	1:N:140:ARG:HG2	2.07	0.49
1:O:755:ARG:NH2	1:O:769:TRP:CD1	2.81	0.49
1:O:917:ARG:NH2	1:O:943:GLU:OE2	2.45	0.49
1:O:940:GLY:N	1:O:956:GLN:OE1	2.43	0.49
1:P:258:VAL:HG12	1:P:258:VAL:O	2.10	0.49
1:P:539:ALA:HB3	1:P:567:VAL:HG13	1.94	0.49
1:A:654:TRP:CE2	1:A:666:GLY:HA3	2.47	0.49
1:A:1004:SER:O	1:A:1007:PHE:N	2.26	0.49
1:B:788:PRO:HD2	1:B:968:MET:HB2	1.93	0.49
1:C:737:ILE:HD13	1:C:831:ALA:O	2.11	0.49
1:D:197:LEU:HA	1:D:417:THR:HG22	1.94	0.49
1:D:301:TRP:HD1	1:D:307:ASN:O	1.96	0.49
1:E:163:GLN:OE1	1:E:193:ASP:OD1	2.31	0.49
1:E:240:LEU:HD12	1:E:241:GLU:H	1.76	0.49
1:E:499:ILE:HD11	1:E:529:GLU:HG2	1.94	0.49
1:E:619:GLU:OE2	1:E:911:THR:HG23	2.12	0.49
1:E:702:GLN:O	1:E:703:PRO:C	2.55	0.49
1:F:127:PHE:N	1:F:127:PHE:CD1	2.80	0.49
1:F:452:SER:O	1:F:454:ILE:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:576:ILE:HG22	1:F:577:LYS:N	2.27	0.49
1:F:933:SER:O	1:F:934:GLU:C	2.56	0.49
1:H:37:ARG:NH2	1:H:216:HIS:O	2.44	0.49
1:H:50:GLN:O	1:H:215:LEU:HA	2.12	0.49
1:H:276:GLY:N	1:H:285:TYR:O	2.40	0.49
1:H:742:THR:CG2	1:H:743:SER:H	2.10	0.49
1:I:261:TRP:CE3	1:I:266:GLN:HA	2.46	0.49
1:I:375:ASP:OD1	1:I:611:ARG:NE	2.38	0.49
1:I:786:ARG:HH11	1:I:990:HIS:CE1	2.27	0.49
1:J:199:ASP:OD2	1:J:419:GLY:N	2.45	0.49
1:J:549:PHE:O	1:J:551:LYS:N	2.45	0.49
1:J:775:GLN:C	1:J:776:LEU:HD23	2.38	0.49
1:K:114:VAL:HG13	1:K:191:TRP:HB2	1.95	0.49
1:K:579:ASP:O	1:K:582:GLY:N	2.30	0.49
1:L:40:GLU:OE1	1:L:43:ARG:NH1	2.46	0.49
1:L:147:ASN:HB2	1:L:209:PHE:HE1	1.78	0.49
1:L:161:TYR:CG	1:L:162:GLY:N	2.80	0.49
1:L:830:LEU:O	1:L:831:ALA:C	2.55	0.49
1:L:900:LEU:HB2	1:L:939:CYS:O	2.12	0.49
1:M:153:TRP:CD1	1:M:158:TRP:HA	2.48	0.49
1:M:454:ILE:HG13	1:M:455:ILE:CG1	2.42	0.49
1:M:592:PHE:HB2	1:M:594:ASP:OD1	2.12	0.49
1:N:40:GLU:O	1:N:41:GLU:C	2.53	0.49
1:N:668:VAL:O	1:N:668:VAL:HG12	2.11	0.49
1:N:694:LEU:HB3	1:N:723:ALA:H	1.77	0.49
1:N:865:ALA:HA	1:N:1019:VAL:HG22	1.95	0.49
1:O:192:SER:O	1:O:193:ASP:C	2.50	0.49
1:O:568:TRP:CD2	1:O:569:ASP:HB3	2.47	0.49
1:O:577:LYS:O	1:O:585:TRP:N	2.45	0.49
1:O:897:TRP:CZ3	1:O:918:TRP:HB2	2.46	0.49
1:O:952:ARG:O	1:O:1018:LEU:HD23	2.12	0.49
1:P:15:ASP:C	1:P:17:GLU:H	2.19	0.49
1:P:257:THR:HG23	1:P:271:THR:OG1	2.13	0.49
1:P:331:GLY:HA3	1:P:451:PRO:HG3	1.94	0.49
1:P:360:HIS:CE1	1:P:361:PRO:HD2	2.47	0.49
1:P:647:SER:HA	1:P:650:GLU:OE1	2.12	0.49
1:A:772:ASP:OD1	1:A:772:ASP:N	2.29	0.49
1:A:1020:TRP:CD1	1:A:1021:CYS:N	2.79	0.49
1:B:877:PRO:O	1:B:878:HIS:C	2.55	0.49
1:D:545:SER:HA	1:D:993:ILE:HD12	1.94	0.49
1:D:610:ASP:O	1:D:611:ARG:HB2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:163:GLN:O	1:E:164:ASP:HB3	2.13	0.49
1:E:173:LEU:HD13	1:E:177:LEU:HD21	1.93	0.49
1:E:608:PHE:CD1	1:E:614:HIS:HE1	2.31	0.49
1:E:698:VAL:O	1:E:698:VAL:HG23	2.12	0.49
1:F:226:HIS:N	1:F:226:HIS:CD2	2.78	0.49
1:F:422:PRO:HG2	1:G:279:ILE:HD13	1.92	0.49
1:F:448:ARG:NH2	1:F:478:VAL:HG12	2.27	0.49
1:G:649:ASN:O	1:G:702:GLN:HG2	2.13	0.49
1:G:770:ILE:HG22	1:G:770:ILE:O	2.11	0.49
1:G:870:VAL:HG12	1:G:871:GLU:N	2.27	0.49
1:G:906:TYR:OH	1:G:935:ASN:HA	2.12	0.49
1:H:46:ARG:HB3	1:H:47:PRO:CD	2.42	0.49
1:H:123:TYR:N	1:H:123:TYR:CD1	2.79	0.49
1:H:579:ASP:OD2	1:H:583:ASN:HB2	2.12	0.49
1:H:822:LEU:O	1:H:823:LEU:HD23	2.13	0.49
1:I:73:TRP:CE2	1:I:122:CYS:HB3	2.48	0.49
1:I:616:ALA:O	1:I:617:LEU:C	2.53	0.49
1:J:132:SER:C	1:J:134:LEU:H	2.20	0.49
1:K:823:LEU:HD11	1:K:841:ALA:HB2	1.95	0.49
1:L:166:ARG:CG	1:L:392:TYR:HB2	2.39	0.49
1:L:538:TYR:O	1:L:567:VAL:HA	2.13	0.49
1:L:742:THR:CG2	1:L:743:SER:N	2.76	0.49
1:M:176:PHE:N	1:M:176:PHE:CD1	2.80	0.49
1:M:232:ASN:HD21	1:M:236:SER:N	2.10	0.49
1:M:654:TRP:O	1:M:665:SER:HA	2.13	0.49
1:M:763:GLY:HA3	1:M:822:LEU:HD21	1.95	0.49
1:M:767:GLN:CD	1:M:768:MET:H	2.19	0.49
1:N:46:ARG:HB3	1:N:47:PRO:CD	2.42	0.49
1:N:278:ILE:HD13	1:N:283:GLY:HA2	1.94	0.49
1:O:801:ILE:HG12	1:O:808:GLU:OE1	2.13	0.49
1:P:653:HIS:O	1:P:698:VAL:HA	2.13	0.49
1:B:533:LEU:HD12	1:B:534:ILE:N	2.27	0.49
1:B:816:TYR:N	3:B:1209:HOH:O	2.35	0.49
1:C:568:TRP:HE1	1:C:604:ASN:HD22	1.59	0.49
1:D:34:ALA:HB3	1:D:36:TRP:CE3	2.47	0.49
1:D:397:LEU:HD12	1:D:397:LEU:C	2.37	0.49
1:D:590:GLY:C	1:D:592:PHE:H	2.20	0.49
1:E:35:SER:O	1:E:36:TRP:C	2.55	0.49
1:E:66:PRO:O	1:E:69:VAL:N	2.38	0.49
1:E:240:LEU:HD12	1:E:241:GLU:N	2.28	0.49
1:E:310:ARG:HG3	1:E:328:CYS:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:353:GLY:C	1:E:566:PHE:HA	2.37	0.49
1:E:514:ALA:C	1:E:516:PRO:HD3	2.37	0.49
1:F:350:LEU:O	1:F:385:ASN:OD1	2.29	0.49
1:F:579:ASP:OD1	1:F:583:ASN:HB2	2.12	0.49
1:F:673:ALA:O	1:F:674:PRO:C	2.55	0.49
1:F:906:TYR:HB3	1:F:907:PRO:CD	2.41	0.49
1:G:1008:GLN:O	1:G:1010:SER:N	2.46	0.49
1:H:316:HIS:HD2	1:H:317:THR:O	1.94	0.49
1:H:579:ASP:N	1:H:583:ASN:O	2.39	0.49
1:I:7:LEU:HD13	1:I:74:LEU:HD11	1.94	0.49
1:I:36:TRP:O	1:I:37:ARG:HG2	2.12	0.49
1:I:103:VAL:HB	3:I:1215:HOH:O	2.13	0.49
1:I:257:THR:HG22	1:I:258:VAL:N	2.27	0.49
1:J:111:PRO:HG3	1:J:196:TYR:CD1	2.47	0.49
1:J:822:LEU:CD1	1:J:824:GLN:H	2.25	0.49
1:J:1004:SER:HG	1:J:1006:GLU:CD	2.19	0.49
1:K:16:TRP:O	1:K:193:ASP:N	2.45	0.49
1:K:86:VAL:HA	1:K:87:PRO:C	2.37	0.49
1:K:775:GLN:HA	1:K:775:GLN:NE2	2.27	0.49
1:K:785:THR:HA	1:K:880:ALA:HB3	1.95	0.49
1:L:127:PHE:CE1	1:L:184:LEU:HD11	2.47	0.49
1:L:246:MET:HE2	1:L:287:ASP:HB2	1.92	0.49
1:L:317:THR:O	1:L:318:ALA:C	2.55	0.49
1:M:34:ALA:HB1	1:M:48:SER:HB3	1.94	0.49
1:M:45:ASP:O	1:M:46:ARG:C	2.54	0.49
1:M:367:MET:O	1:M:368:ASP:HB3	2.13	0.49
1:N:14:ARG:NH1	1:N:16:TRP:CZ2	2.80	0.49
1:N:167:LEU:HD11	1:N:443:MET:HA	1.94	0.49
1:N:190:ARG:HD3	1:N:191:TRP:CZ2	2.47	0.49
1:N:936:GLY:O	1:N:937:LEU:C	2.55	0.49
1:O:740:LEU:CD1	1:O:749:ILE:HD11	2.43	0.49
1:O:758:PHE:HZ	1:O:864:MET:CE	2.25	0.49
1:P:136:GLU:O	1:P:137:GLY:O	2.30	0.49
1:P:467:ASN:O	1:P:471:LEU:HD12	2.13	0.49
1:P:501:PRO:HD2	1:P:533:LEU:CD1	2.43	0.49
1:P:568:TRP:CD2	1:P:569:ASP:HB3	2.48	0.49
1:P:624:GLN:O	1:P:625:GLN:C	2.46	0.49
1:P:810:TRP:O	1:P:811:LYS:O	2.30	0.49
1:P:823:LEU:HD11	1:P:841:ALA:CB	2.43	0.49
1:A:127:PHE:HE1	1:A:184:LEU:HG	1.78	0.49
1:B:427:THR:HA	1:B:436:MET:HE2	1.89	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:636:ILE:HD11	1:B:682:LEU:HD11	1.95	0.49
1:C:964:GLN:O	1:C:965:GLN:C	2.54	0.49
1:D:18:ASN:CG	1:D:21:VAL:HG23	2.36	0.49
1:D:23:GLN:O	1:D:24:LEU:HD13	2.12	0.49
1:D:25:ASN:ND2	1:D:158:TRP:CZ3	2.81	0.49
1:D:34:ALA:O	1:D:35:SER:HB3	2.13	0.49
1:D:599:ARG:HB2	1:D:600:GLN:CG	2.33	0.49
1:E:607:VAL:HG12	1:E:613:PRO:HA	1.95	0.49
1:F:86:VAL:HA	1:F:87:PRO:C	2.37	0.49
1:F:163:GLN:OE1	1:F:193:ASP:OD1	2.31	0.49
1:F:1020:TRP:CD1	1:F:1021:CYS:N	2.80	0.49
1:G:375:ASP:CG	1:G:570:TRP:HE1	2.21	0.49
1:G:616:ALA:O	1:G:617:LEU:C	2.52	0.49
1:G:739:HIS:O	1:G:740:LEU:O	2.30	0.49
1:G:783:GLN:HB3	3:G:1283:HOH:O	2.13	0.49
1:H:99:ILE:HD11	1:H:190:ARG:HH12	1.76	0.49
1:H:118:ASN:O	1:H:119:PRO:C	2.53	0.49
1:H:205:MET:O	1:H:206:SER:HB3	2.12	0.49
1:H:937:LEU:HD23	1:H:939:CYS:SG	2.53	0.49
1:I:487:GLU:O	1:I:491:ALA:N	2.45	0.49
1:I:767:GLN:CG	1:I:768:MET:N	2.76	0.49
1:I:894:ARG:HH12	1:I:919:ASP:C	2.20	0.49
1:J:7:LEU:CD1	1:J:74:LEU:HD11	2.42	0.49
1:K:223:SER:O	1:K:224:ASP:HB2	2.13	0.49
1:L:410:VAL:HG22	1:L:455:ILE:HB	1.95	0.49
1:L:502:MET:HB2	1:L:537:GLU:HB2	1.95	0.49
1:L:904:GLU:CG	1:L:906:TYR:HE1	2.26	0.49
1:L:951:TRP:HB3	1:L:1018:LEU:CD2	2.42	0.49
1:M:140:ARG:NE	1:M:170:GLU:OE1	2.44	0.49
1:M:256:VAL:O	1:M:271:THR:HA	2.13	0.49
1:N:5:ASP:OD2	1:N:157:ARG:HG2	2.13	0.49
1:N:797:GLU:O	1:N:800:ARG:O	2.31	0.49
1:O:110:ASN:O	1:O:113:PHE:N	2.46	0.49
1:O:234:ASP:OD1	1:O:236:SER:OG	2.30	0.49
1:O:274:PHE:CD2	1:O:289:VAL:HG12	2.48	0.49
1:O:410:VAL:O	1:O:410:VAL:HG12	2.13	0.49
1:O:501:PRO:HD2	1:O:533:LEU:HD11	1.95	0.49
1:O:685:LEU:CB	1:O:686:PRO:HD2	2.26	0.49
1:O:1019:VAL:O	1:O:1019:VAL:HG12	2.12	0.49
1:P:145:GLY:O	1:P:146:VAL:HG23	2.11	0.49
1:P:629:PHE:N	1:P:629:PHE:CD1	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:949:HIS:ND1	1:P:949:HIS:N	2.59	0.49
1:A:872:VAL:O	1:A:873:ALA:C	2.54	0.49
1:B:377:LEU:HD23	1:B:708:TRP:CA	2.39	0.49
1:C:84:VAL:HG12	1:C:85:VAL:N	2.28	0.49
1:C:580:GLU:HB2	1:C:581:ASN:OD1	2.13	0.49
1:C:768:MET:HE1	1:C:1022:GLN:HE22	1.76	0.49
1:D:390:SER:HB2	1:D:391:HIS:ND1	2.28	0.49
1:E:559:TYR:CB	1:E:562:LEU:HD12	2.40	0.49
1:E:630:ARG:NH1	1:E:637:GLU:OE2	2.46	0.49
1:F:147:ASN:HB2	1:F:209:PHE:CE1	2.47	0.49
1:F:823:LEU:HB2	1:F:839:ALA:O	2.12	0.49
1:G:436:MET:HE1	1:G:467:ASN:HB2	1.94	0.49
1:H:118:ASN:O	1:H:120:THR:N	2.45	0.49
1:H:159:VAL:HG12	1:H:160:GLY:N	2.27	0.49
1:H:336:ARG:HH21	1:H:338:GLU:CD	2.19	0.49
1:H:645:ARG:NH2	1:H:650:GLU:OE1	2.46	0.49
1:I:100:TYR:O	1:I:597:ASN:HA	2.13	0.49
1:J:1005:ALA:O	1:J:1007:PHE:N	2.46	0.49
1:K:24:LEU:HB2	1:K:161:TYR:HB3	1.94	0.49
1:K:102:ASN:ND2	1:K:201:ASP:HB2	2.26	0.49
1:K:234:ASP:OD1	1:K:236:SER:OG	2.28	0.49
1:K:261:TRP:CE3	1:K:266:GLN:HB2	2.48	0.49
1:K:368:ASP:O	1:K:369:GLU:C	2.54	0.49
1:K:416:GLU:HG3	1:K:418:HIS:H	1.77	0.49
1:L:506:VAL:CG1	1:L:521:LYS:HE3	2.42	0.49
1:L:984:LEU:HD21	1:L:986:ILE:CD1	2.42	0.49
1:M:369:GLU:O	1:M:372:MET:HB2	2.13	0.49
1:M:629:PHE:N	1:M:629:PHE:CD1	2.80	0.49
1:N:436:MET:CA	1:N:439:ARG:HG3	2.34	0.49
1:N:741:THR:O	1:N:741:THR:HG22	2.12	0.49
1:O:594:ASP:OD1	1:O:594:ASP:N	2.41	0.49
1:O:668:VAL:HG11	1:O:680:ILE:HG21	1.91	0.49
1:O:745:MET:O	1:O:746:ASP:HB3	2.13	0.49
1:P:217:LYS:NZ	1:P:324:GLU:OE2	2.46	0.49
1:P:394:ASN:O	1:P:395:HIS:O	2.30	0.49
1:A:393:PRO:HD2	1:A:414:ASN:HB2	1.93	0.49
1:B:386:ALA:HB1	1:B:408:TYR:O	2.13	0.49
1:B:698:VAL:HG22	1:B:718:GLN:CA	2.43	0.49
1:C:127:PHE:N	1:C:127:PHE:CD1	2.79	0.49
1:C:536:CYS:C	1:C:537:GLU:HG3	2.38	0.49
1:D:579:ASP:OD1	1:D:583:ASN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:778:THR:HB	1:E:887:GLN:CB	2.41	0.49
1:F:945:ASN:OD1	1:F:950:GLN:NE2	2.46	0.49
1:G:118:ASN:O	1:G:119:PRO:C	2.56	0.49
1:G:603:MET:O	1:G:604:ASN:OD1	2.30	0.49
1:G:647:SER:OG	1:G:672:VAL:HG23	2.12	0.49
1:H:397:LEU:HD12	1:H:397:LEU:O	2.12	0.49
1:I:38:ASN:HB3	1:I:41:GLU:HB2	1.95	0.49
1:I:778:THR:CG2	1:I:779:PRO:HD2	2.42	0.49
1:J:301:TRP:CE3	1:J:302:SER:N	2.81	0.49
1:J:379:MET:O	1:J:380:LYS:C	2.55	0.49
1:J:524:LEU:HD23	1:J:524:LEU:HA	1.45	0.49
1:J:608:PHE:O	1:J:610:ASP:N	2.46	0.49
1:K:190:ARG:HG2	1:K:206:SER:HB3	1.94	0.49
1:L:14:ARG:HH11	1:L:14:ARG:CG	2.25	0.49
1:L:58:TRP:CE2	1:L:125:LEU:HD22	2.47	0.49
1:L:73:TRP:HZ2	1:L:123:TYR:O	1.95	0.49
1:L:653:HIS:CD2	1:L:667:GLU:CG	2.96	0.49
1:M:326:GLU:OE1	1:M:326:GLU:HA	2.12	0.49
1:M:352:ARG:HG2	1:M:624:GLN:HB3	1.95	0.49
1:M:536:CYS:O	1:M:566:PHE:HB2	2.12	0.49
1:M:606:LEU:HB3	1:M:617:LEU:HD12	1.94	0.49
1:M:683:PRO:O	1:M:684:GLU:C	2.54	0.49
1:M:777:LEU:CG	1:M:889:ALA:HB2	2.42	0.49
1:M:1012:GLY:C	1:M:1013:ARG:HG3	2.38	0.49
1:N:190:ARG:NH2	1:N:204:ARG:O	2.41	0.49
1:N:517:LYS:HE2	3:N:1271:HOH:O	2.13	0.49
1:O:26:ARG:HD2	1:O:442:ARG:NH2	2.28	0.49
1:O:227:VAL:HG12	1:O:228:ALA:N	2.28	0.49
1:O:856:TYR:CE2	1:O:866:ILE:HD13	2.48	0.49
1:P:23:GLN:OE1	1:P:26:ARG:HB3	2.13	0.49
1:P:211:ASP:OD1	1:P:211:ASP:N	2.44	0.49
1:P:225:PHE:O	1:P:226:HIS:HD2	1.96	0.49
1:P:474:TRP:CH2	1:P:478:VAL:HG21	2.45	0.49
1:P:652:LEU:HD12	1:P:653:HIS:N	2.27	0.49
1:P:876:THR:O	1:P:877:PRO:C	2.55	0.49
1:A:11:LEU:CD1	1:A:187:MET:HE1	2.43	0.49
1:A:411:ASP:HB2	1:A:453:VAL:HG13	1.94	0.49
1:A:487:GLU:HB3	3:A:1219:HOH:O	2.13	0.49
1:A:647:SER:OG	1:A:672:VAL:N	2.40	0.49
1:B:279:ILE:HD13	1:C:422:PRO:CG	2.43	0.49
1:B:627:PHE:C	1:B:628:GLN:HE21	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:868:VAL:HG21	1:B:1016:TYR:CZ	2.48	0.49
1:B:1019:VAL:O	1:B:1019:VAL:HG12	2.12	0.49
1:C:37:ARG:HG3	1:C:37:ARG:NH1	2.24	0.49
1:C:66:PRO:HB3	1:C:187:MET:HE3	1.94	0.49
1:C:579:ASP:OD1	1:C:583:ASN:OD1	2.31	0.49
1:C:835:LEU:C	1:C:836:ILE:HD12	2.38	0.49
1:C:837:THR:O	1:C:837:THR:HG22	2.11	0.49
1:C:867:THR:O	1:C:867:THR:HG22	2.11	0.49
1:D:30:HIS:CE1	1:D:33:PHE:CD2	3.01	0.49
1:D:479:ASP:OD2	1:D:482:ARG:HD2	2.12	0.49
1:D:756:TRP:CD2	1:D:858:ILE:HD13	2.48	0.49
1:E:645:ARG:NH1	1:E:648:ASP:OD1	2.45	0.49
1:E:827:ALA:O	1:E:828:ASP:OD1	2.30	0.49
1:E:837:THR:O	1:E:837:THR:HG22	2.12	0.49
1:E:1012:GLY:O	1:E:1013:ARG:HG3	2.13	0.49
1:F:45:ASP:O	1:F:46:ARG:O	2.31	0.49
1:G:187:MET:HE3	1:G:189:LEU:HD21	1.95	0.49
1:G:354:VAL:HG22	1:G:355:ASN:O	2.12	0.49
1:G:635:THR:CG2	1:G:681:GLU:HG3	2.42	0.49
1:G:742:THR:HG22	1:G:743:SER:O	2.13	0.49
1:G:764:PHE:HD1	3:G:1264:HOH:O	1.94	0.49
1:H:69:VAL:CG1	1:H:70:PRO:HD2	2.41	0.49
1:H:394:ASN:O	1:H:395:HIS:C	2.54	0.49
1:H:670:LEU:HD23	1:H:670:LEU:HA	1.56	0.49
1:I:209:PHE:CD1	1:I:210:ARG:HG2	2.47	0.49
1:I:461:GLU:HA	3:I:1239:HOH:O	2.12	0.49
1:I:797:GLU:O	1:I:800:ARG:O	2.31	0.49
1:J:301:TRP:CE3	1:J:302:SER:HA	2.48	0.49
1:J:369:GLU:HG2	1:J:397:LEU:HD21	1.95	0.49
1:K:3:ILE:O	1:K:3:ILE:HG13	1.94	0.49
1:K:166:ARG:HG2	1:K:392:TYR:HB2	1.95	0.49
1:K:209:PHE:HD1	1:K:209:PHE:H	1.60	0.49
1:L:492:ASP:CB	1:L:499:ILE:HG23	2.43	0.49
1:L:636:ILE:O	1:L:680:ILE:N	2.43	0.49
1:M:173:LEU:C	1:M:177:LEU:HG	2.37	0.49
1:M:284:GLY:HA2	1:P:422:PRO:HG3	1.94	0.49
1:M:388:ARG:NH1	1:M:536:CYS:HB2	2.27	0.49
1:M:433:LEU:O	1:M:437:SER:HB3	2.12	0.49
1:N:336:ARG:HH21	1:N:338:GLU:CD	2.21	0.49
1:O:377:LEU:HD22	1:O:708:TRP:CB	2.43	0.49
1:O:740:LEU:HD13	1:O:749:ILE:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:173:LEU:O	1:P:176:PHE:N	2.42	0.49
1:P:342:LEU:C	1:P:342:LEU:HD12	2.38	0.49
1:P:644:PHE:O	1:P:674:PRO:HG3	2.12	0.49
1:P:923:SER:C	1:P:925:MET:H	2.21	0.49
1:A:251:ARG:O	1:A:254:LEU:N	2.42	0.48
1:A:777:LEU:CD1	1:A:889:ALA:HA	2.43	0.48
1:B:10:VAL:O	1:B:13:ARG:HG3	2.12	0.48
1:B:687:GLN:O	1:B:688:PRO:O	2.30	0.48
1:B:937:LEU:HD23	1:B:939:CYS:SG	2.52	0.48
1:C:226:HIS:N	1:C:226:HIS:CD2	2.80	0.48
1:C:928:PRO:HB2	1:C:973:ARG:NH1	2.28	0.48
1:D:11:LEU:HD11	1:D:187:MET:HE1	1.93	0.48
1:D:601:PHE:CE2	1:D:795:VAL:HG12	2.47	0.48
1:E:355:ASN:ND2	1:E:566:PHE:HB3	2.27	0.48
1:E:425:ARG:NH2	1:H:285:TYR:HD1	2.11	0.48
1:E:576:ILE:O	1:E:576:ILE:HG22	2.13	0.48
1:E:970:THR:HB	1:E:976:LEU:HD21	1.95	0.48
1:F:250:LEU:O	1:F:251:ARG:HG2	2.13	0.48
1:F:797:GLU:O	1:F:800:ARG:O	2.30	0.48
1:G:307:ASN:C	1:G:308:LEU:HD23	2.37	0.48
1:G:540:HIS:HD2	1:G:568:TRP:CD1	2.26	0.48
1:G:936:GLY:O	1:G:937:LEU:O	2.29	0.48
1:H:79:PRO:HD2	1:H:80:GLU:H	1.76	0.48
1:H:131:GLU:O	1:H:134:LEU:N	2.36	0.48
1:H:997:ASP:OD1	1:H:999:TRP:N	2.36	0.48
1:I:3:ILE:O	1:I:9:VAL:HG21	2.13	0.48
1:J:502:MET:HE2	1:J:537:GLU:CD	2.38	0.48
1:J:850:PHE:HD2	1:J:872:VAL:HG13	1.77	0.48
1:K:66:PRO:HB3	1:K:187:MET:CE	2.43	0.48
1:K:257:THR:HB	1:K:314:GLU:HG3	1.95	0.48
1:K:597:ASN:HD22	1:K:599:ARG:H	1.61	0.48
1:K:608:PHE:CE2	1:K:614:HIS:CE1	3.01	0.48
1:K:780:LEU:O	1:K:780:LEU:HG	2.13	0.48
1:K:815:HIS:H	1:K:815:HIS:CD2	2.31	0.48
1:L:890:GLN:O	1:L:891:VAL:HG23	2.13	0.48
1:L:909:ARG:O	1:L:909:ARG:HG2	2.13	0.48
1:M:230:ARG:O	1:M:238:ALA:HA	2.13	0.48
1:M:317:THR:O	1:M:320:GLY:N	2.38	0.48
1:M:512:PHE:CD2	1:M:517:LYS:HG3	2.47	0.48
1:M:546:LEU:HD22	1:M:616:ALA:HB1	1.95	0.48
1:M:560:PRO:HD3	1:N:522:LYS:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:764:PHE:CE1	1:M:840:HIS:NE2	2.80	0.48
1:M:906:TYR:O	1:M:910:LEU:HD23	2.13	0.48
1:N:73:TRP:HZ2	1:N:123:TYR:O	1.96	0.48
1:N:768:MET:HG2	1:N:775:GLN:HB2	1.95	0.48
1:N:873:ALA:O	1:N:876:THR:N	2.46	0.48
1:O:102:ASN:HD22	1:O:201:ASP:HB2	1.79	0.48
1:O:103:VAL:HG22	1:O:418:HIS:CG	2.48	0.48
1:O:110:ASN:O	1:O:113:PHE:HB2	2.12	0.48
1:P:139:THR:HG21	1:P:177:LEU:HD12	1.95	0.48
1:P:194:GLY:O	1:P:197:LEU:N	2.34	0.48
1:P:344:LEU:C	1:P:344:LEU:HD23	2.38	0.48
1:P:347:LYS:HB2	1:P:643:LEU:HD13	1.94	0.48
1:P:540:HIS:HA	1:P:568:TRP:O	2.13	0.48
1:P:736:ALA:C	1:P:737:ILE:HG22	2.38	0.48
1:P:929:TYR:O	1:P:931:PHE:N	2.46	0.48
1:A:285:TYR:HB2	1:A:288:ARG:HB2	1.96	0.48
1:A:290:THR:O	1:A:290:THR:HG22	2.12	0.48
1:A:906:TYR:HB3	1:A:907:PRO:HD2	1.96	0.48
1:B:227:VAL:HG13	1:B:240:LEU:HD11	1.95	0.48
1:B:281:GLU:OE1	1:B:281:GLU:N	2.36	0.48
1:B:778:THR:HG22	1:B:779:PRO:CD	2.36	0.48
1:B:782:ASP:HB2	1:B:842:TRP:CZ2	2.47	0.48
1:C:685:LEU:CD2	1:C:686:PRO:HD2	2.42	0.48
1:C:767:GLN:HA	1:C:776:LEU:HD12	1.95	0.48
1:E:382:ASN:CG	1:E:617:LEU:HD21	2.38	0.48
1:F:679:LEU:N	1:F:679:LEU:HD23	2.28	0.48
1:G:958:ASN:OD1	1:G:985:ASN:ND2	2.46	0.48
1:H:26:ARG:HD3	1:H:169:SER:OG	2.13	0.48
1:H:177:LEU:N	1:H:177:LEU:HD23	2.28	0.48
1:H:240:LEU:HD12	1:H:240:LEU:C	2.31	0.48
1:I:685:LEU:HD23	1:I:685:LEU:HA	1.57	0.48
1:J:837:THR:O	1:J:837:THR:HG22	2.13	0.48
1:K:83:THR:C	1:K:84:VAL:HG23	2.38	0.48
1:K:271:THR:HG22	1:K:272:ALA:N	2.28	0.48
1:K:748:CYS:O	1:K:749:ILE:HG12	2.12	0.48
1:K:905:ASN:O	1:K:937:LEU:HD23	2.13	0.48
1:L:360:HIS:CG	1:L:361:PRO:HD2	2.48	0.48
1:L:610:ASP:O	1:L:611:ARG:HB2	2.12	0.48
1:L:653:HIS:CD2	1:L:667:GLU:HG3	2.47	0.48
1:M:418:HIS:C	1:M:420:MET:H	2.22	0.48
1:M:451:PRO:O	1:M:453:VAL:O	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:524:LEU:O	1:M:561:ARG:NH2	2.45	0.48
1:N:304:GLU:OE2	1:N:643:LEU:N	2.28	0.48
1:N:382:ASN:HA	1:N:621:LYS:HD2	1.94	0.48
1:N:627:PHE:C	1:N:628:GLN:HE21	2.21	0.48
1:O:327:ALA:O	1:O:328:CYS:HB3	2.13	0.48
1:O:701:VAL:HG12	1:O:712:GLY:HA2	1.95	0.48
1:P:100:TYR:CE1	1:P:602:CYS:HB3	2.49	0.48
1:P:172:ASP:O	1:P:173:LEU:HD23	2.13	0.48
1:A:460:ASN:ND2	1:A:461:GLU:HG3	2.29	0.48
1:A:701:VAL:O	1:A:703:PRO:HD3	2.13	0.48
1:A:740:LEU:HD12	1:A:741:THR:N	2.27	0.48
1:B:579:ASP:CG	1:B:583:ASN:HB2	2.38	0.48
1:B:652:LEU:HD11	1:B:698:VAL:HB	1.94	0.48
1:C:141:ILE:HB	1:C:173:LEU:HD11	1.94	0.48
1:C:742:THR:HG22	1:C:743:SER:N	2.28	0.48
1:E:16:TRP:CE3	1:E:189:LEU:HD11	2.48	0.48
1:E:102:ASN:ND2	1:E:201:ASP:OD1	2.46	0.48
1:E:955:PHE:N	1:E:955:PHE:CD1	2.80	0.48
1:G:540:HIS:CD2	1:G:568:TRP:CD1	3.00	0.48
1:G:858:ILE:HA	1:G:863:GLN:O	2.13	0.48
1:H:102:ASN:ND2	1:H:201:ASP:HB2	2.23	0.48
1:H:210:ARG:O	1:H:211:ASP:O	2.30	0.48
1:H:429:ASP:OD1	1:H:431:ARG:HG3	2.13	0.48
1:H:764:PHE:CE1	1:H:840:HIS:NE2	2.81	0.48
1:H:878:HIS:ND1	1:H:878:HIS:N	2.59	0.48
1:I:36:TRP:CE2	1:I:42:ALA:HA	2.48	0.48
1:J:10:VAL:HG11	1:J:153:TRP:CZ2	2.49	0.48
1:J:767:GLN:CD	1:J:768:MET:H	2.21	0.48
1:J:950:GLN:OE1	1:J:952:ARG:NE	2.46	0.48
1:L:152:LEU:HD12	1:L:152:LEU:C	2.38	0.48
1:L:599:ARG:HB2	1:L:600:GLN:HG3	1.95	0.48
1:L:966:GLN:OE1	1:L:976:LEU:HA	2.13	0.48
1:M:353:GLY:HA3	1:M:386:ALA:O	2.13	0.48
1:M:412:GLU:HG3	1:M:457:SER:CB	2.40	0.48
1:M:423:MET:N	1:P:280:ASP:OD2	2.44	0.48
1:M:551:LYS:O	1:M:552:TYR:C	2.53	0.48
1:M:868:VAL:HB	1:M:1016:TYR:CE1	2.47	0.48
1:N:176:PHE:N	1:N:176:PHE:CD1	2.81	0.48
1:O:265:THR:O	1:O:265:THR:HG22	2.13	0.48
1:P:62:TRP:CZ3	1:P:64:PRO:N	2.81	0.48
1:P:77:ASP:C	1:P:78:LEU:HD23	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:252:ASP:O	1:P:255:ARG:NH1	2.45	0.48
1:P:533:LEU:O	1:P:534:ILE:HG13	2.13	0.48
1:P:767:GLN:OE1	1:P:768:MET:N	2.35	0.48
1:P:823:LEU:O	1:P:824:GLN:HB2	2.12	0.48
1:P:952:ARG:O	1:P:1018:LEU:HD23	2.14	0.48
1:P:958:ASN:OD1	1:P:958:ASN:O	2.32	0.48
1:B:7:LEU:HD22	1:B:71:GLU:HA	1.95	0.48
1:B:897:TRP:CE2	1:B:918:TRP:HB2	2.47	0.48
1:C:415:ILE:HG12	1:C:439:ARG:HD2	1.94	0.48
1:C:920:LEU:HB3	1:C:921:PRO:CD	2.40	0.48
1:D:66:PRO:HB3	1:D:187:MET:CE	2.40	0.48
1:D:89:ASN:HD22	1:D:206:SER:H	1.61	0.48
1:D:939:CYS:HA	1:D:956:GLN:HB3	1.96	0.48
1:E:287:ASP:OD1	1:E:287:ASP:N	2.45	0.48
1:E:315:LEU:O	1:E:323:ILE:HB	2.14	0.48
1:E:421:VAL:O	1:E:425:ARG:HD2	2.13	0.48
1:E:789:LEU:HD12	1:E:792:ASP:OD2	2.14	0.48
1:E:877:PRO:O	1:E:878:HIS:C	2.55	0.48
1:F:99:ILE:HG22	1:F:100:TYR:N	2.28	0.48
1:F:134:LEU:HD12	1:F:179:ALA:HB2	1.94	0.48
1:F:146:VAL:HG22	1:F:208:ILE:HG12	1.95	0.48
1:F:533:LEU:HD12	1:F:534:ILE:N	2.28	0.48
1:F:622:HIS:O	1:F:625:GLN:HG2	2.14	0.48
1:F:658:LEU:HD12	1:F:658:LEU:C	2.37	0.48
1:F:726:LEU:N	1:F:726:LEU:HD23	2.25	0.48
1:F:837:THR:O	1:F:837:THR:HG22	2.12	0.48
1:G:765:LEU:C	1:G:765:LEU:HD12	2.38	0.48
1:G:801:ILE:O	1:G:803:PRO:HD3	2.14	0.48
1:G:1015:HIS:NE2	1:G:1017:GLN:OE1	2.46	0.48
1:H:317:THR:OG1	1:H:319:ASP:OD2	2.30	0.48
1:H:655:MET:HG2	1:H:656:VAL:N	2.28	0.48
1:H:814:GLY:HA3	1:H:844:HIS:CD2	2.48	0.48
1:H:836:ILE:HG22	1:H:837:THR:N	2.26	0.48
1:H:1004:SER:OG	1:H:1006:GLU:OE2	2.28	0.48
1:I:141:ILE:HD12	1:I:214:LEU:HD21	1.95	0.48
1:I:186:VAL:HG12	1:I:187:MET:N	2.28	0.48
1:I:701:VAL:O	1:I:703:PRO:HD3	2.13	0.48
1:J:301:TRP:CD2	1:J:302:SER:N	2.80	0.48
1:J:479:ASP:O	1:J:481:SER:N	2.47	0.48
1:K:632:SER:N	1:K:635:THR:O	2.37	0.48
1:K:1019:VAL:O	1:K:1019:VAL:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:854:LYS:HA	1:L:867:THR:O	2.13	0.48
1:M:197:LEU:CD1	1:M:439:ARG:HE	2.12	0.48
1:M:354:VAL:HG22	1:M:355:ASN:N	2.27	0.48
1:M:422:PRO:HG2	1:P:279:ILE:HD13	1.94	0.48
1:M:882:ILE:O	1:M:882:ILE:HG22	2.12	0.48
1:N:109:VAL:O	1:N:109:VAL:HG12	2.11	0.48
1:O:577:LYS:NZ	1:O:591:ASP:O	2.36	0.48
1:P:34:ALA:CB	1:P:36:TRP:CZ3	2.96	0.48
1:P:311:ALA:O	1:P:327:ALA:HA	2.13	0.48
1:P:313:VAL:HG12	1:P:313:VAL:O	2.12	0.48
1:P:769:TRP:N	1:P:769:TRP:CE3	2.81	0.48
1:A:446:ARG:NE	1:A:447:ASP:OD1	2.33	0.48
1:A:951:TRP:N	1:A:951:TRP:CE3	2.82	0.48
1:A:966:GLN:O	1:A:967:LEU:C	2.57	0.48
1:C:271:THR:HG22	1:C:272:ALA:N	2.28	0.48
1:C:708:TRP:CD1	1:C:708:TRP:N	2.81	0.48
1:D:57:GLU:HG2	1:D:83:THR:HG21	1.93	0.48
1:E:35:SER:C	1:E:36:TRP:O	2.55	0.48
1:E:73:TRP:HZ2	1:E:123:TYR:O	1.95	0.48
1:E:123:TYR:CD2	1:E:208:ILE:HD12	2.49	0.48
1:E:372:MET:HE1	1:E:395:HIS:HB3	1.95	0.48
1:E:444:VAL:O	1:E:448:ARG:HB3	2.13	0.48
1:E:1013:ARG:CZ	1:E:1013:ARG:HB2	2.43	0.48
1:F:210:ARG:HH12	1:F:395:HIS:N	2.12	0.48
1:F:814:GLY:O	1:F:815:HIS:C	2.56	0.48
1:G:246:MET:HE2	1:G:287:ASP:HB3	1.95	0.48
1:H:743:SER:OG	1:H:744:GLU:N	2.45	0.48
1:H:994:GLY:CA	1:H:1003:VAL:HG22	2.43	0.48
1:I:288:ARG:C	1:I:289:VAL:HG12	2.38	0.48
1:I:505:ARG:O	1:I:519:SER:HA	2.14	0.48
1:J:352:ARG:CZ	1:J:626:PHE:CE1	2.97	0.48
1:J:896:ASN:HA	1:J:918:TRP:O	2.13	0.48
1:K:62:TRP:CD1	1:K:95:TYR:HB3	2.49	0.48
1:K:600:GLN:O	1:K:602:CYS:N	2.47	0.48
1:K:896:ASN:HA	1:K:918:TRP:O	2.14	0.48
1:K:974:HIS:CD2	1:K:975:LEU:HG	2.47	0.48
1:L:6:SER:O	1:L:6:SER:OG	2.30	0.48
1:L:832:ASP:O	1:L:833:ALA:HB2	2.14	0.48
1:M:159:VAL:HG22	1:M:176:PHE:CE2	2.49	0.48
1:M:232:ASN:OD1	1:M:232:ASN:N	2.33	0.48
1:M:356:ARG:HH11	1:M:356:ARG:CG	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:967:LEU:HA	1:M:967:LEU:HD23	1.63	0.48
1:N:262:GLN:HB2	1:N:309:TYR:CD1	2.48	0.48
1:N:701:VAL:HG12	1:N:712:GLY:C	2.38	0.48
1:O:835:LEU:HD12	1:O:856:TYR:O	2.12	0.48
1:P:4:THR:C	1:P:6:SER:H	2.22	0.48
1:P:227:VAL:HG13	1:P:240:LEU:HD11	1.94	0.48
1:P:297:ASN:O	1:P:298:PRO:O	2.31	0.48
1:P:388:ARG:NH1	1:P:536:CYS:HB2	2.28	0.48
1:P:501:PRO:HD2	1:P:533:LEU:HD13	1.95	0.48
1:P:737:ILE:O	1:P:738:PRO:C	2.53	0.48
1:P:891:VAL:HG12	1:P:891:VAL:O	2.13	0.48
1:P:927:THR:N	1:P:935:ASN:OD1	2.32	0.48
1:A:66:PRO:HD2	1:A:67:GLU:HG2	1.94	0.48
1:D:102:ASN:HD22	1:D:201:ASP:CB	2.25	0.48
1:D:548:GLY:O	1:D:549:PHE:C	2.57	0.48
1:D:655:MET:HG2	1:D:656:VAL:N	2.27	0.48
1:E:57:GLU:HA	1:E:84:VAL:O	2.13	0.48
1:E:62:TRP:CD1	1:E:95:TYR:HB3	2.49	0.48
1:E:391:HIS:HA	1:E:412:GLU:OE2	2.13	0.48
1:E:608:PHE:CD1	1:E:614:HIS:CE1	3.02	0.48
1:E:750:GLU:HG3	1:E:755:ARG:HG2	1.96	0.48
1:F:395:HIS:CG	1:F:396:PRO:HD2	2.48	0.48
1:F:708:TRP:CD1	1:F:708:TRP:N	2.81	0.48
1:F:777:LEU:HD12	1:F:889:ALA:CA	2.23	0.48
1:F:946:TYR:CE2	1:F:982:THR:HG21	2.49	0.48
1:G:662:PRO:O	1:G:663:LEU:HD23	2.13	0.48
1:G:836:ILE:HG22	1:G:837:THR:N	2.28	0.48
1:H:18:ASN:O	1:H:21:VAL:O	2.32	0.48
1:H:356:ARG:HD2	1:H:379:MET:CE	2.43	0.48
1:H:787:ALA:HB3	1:H:934:GLU:N	2.28	0.48
1:H:814:GLY:O	1:H:816:TYR:N	2.46	0.48
1:I:43:ARG:NH2	1:I:264:GLU:OE2	2.46	0.48
1:I:284:GLY:CA	1:L:422:PRO:HG3	2.44	0.48
1:I:324:GLU:HG2	1:I:325:ALA:N	2.27	0.48
1:I:542:MET:HE3	1:I:601:PHE:HA	1.96	0.48
1:I:640:SER:OG	1:I:642:TYR:HB2	2.14	0.48
1:I:682:LEU:HB3	1:I:683:PRO:CD	2.39	0.48
1:J:344:LEU:HD23	1:J:345:ASN:N	2.29	0.48
1:J:576:ILE:O	1:J:576:ILE:HG22	2.11	0.48
1:J:785:THR:HA	3:J:1254:HOH:O	2.13	0.48
1:K:657:ALA:HA	1:K:661:LYS:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:869:ASP:OD1	1:K:1015:HIS:ND1	2.46	0.48
1:L:546:LEU:HD22	1:L:616:ALA:CB	2.24	0.48
1:L:791:ASN:N	3:L:1233:HOH:O	2.37	0.48
1:M:13:ARG:O	1:M:14:ARG:HB2	2.12	0.48
1:M:69:VAL:CG1	1:M:70:PRO:HD2	2.41	0.48
1:M:456:TRP:HE1	1:M:482:ARG:HB2	1.78	0.48
1:M:506:VAL:HG21	1:M:551:LYS:HB3	1.95	0.48
1:M:645:ARG:HH11	1:M:645:ARG:HB2	1.79	0.48
1:M:962:TYR:HD2	1:M:966:GLN:HE22	1.60	0.48
1:N:84:VAL:HG12	1:N:85:VAL:N	2.28	0.48
1:N:447:ASP:HB3	1:N:450:HIS:HD2	1.78	0.48
1:O:148:SER:HB3	1:O:190:ARG:O	2.13	0.48
1:P:38:ASN:OD1	1:P:39:SER:N	2.47	0.48
1:P:486:TYR:CE2	1:P:488:GLY:HA3	2.49	0.48
1:P:619:GLU:HA	1:P:619:GLU:OE1	2.13	0.48
1:P:767:GLN:CG	1:P:768:MET:N	2.76	0.48
1:P:858:ILE:CD1	1:P:864:MET:HG3	2.43	0.48
1:P:867:THR:O	1:P:867:THR:HG22	2.10	0.48
1:P:1004:SER:O	1:P:1007:PHE:N	2.37	0.48
1:P:1022:GLN:C	1:P:1023:LYS:HG3	2.38	0.48
1:A:429:ASP:O	1:A:430:PRO:C	2.56	0.48
1:B:373:VAL:CG1	1:B:377:LEU:HD11	2.44	0.48
1:B:645:ARG:NH2	1:B:650:GLU:OE2	2.47	0.48
1:B:767:GLN:CD	1:B:768:MET:H	2.22	0.48
1:B:775:GLN:HE21	1:B:775:GLN:CA	2.26	0.48
1:C:73:TRP:CE2	1:C:122:CYS:HB3	2.49	0.48
1:C:821:ALA:O	1:C:840:HIS:HA	2.14	0.48
1:C:933:SER:O	1:C:934:GLU:C	2.57	0.48
1:D:767:GLN:CG	1:D:768:MET:N	2.77	0.48
1:E:91:GLN:OE1	1:E:91:GLN:N	2.30	0.48
1:E:301:TRP:HD1	1:E:307:ASN:O	1.96	0.48
1:F:429:ASP:OD1	1:F:430:PRO:HD2	2.14	0.48
1:F:441:THR:O	1:F:445:GLN:HG3	2.12	0.48
1:F:572:ASP:OD2	1:F:608:PHE:HA	2.14	0.48
1:G:360:HIS:CG	1:G:361:PRO:HD2	2.48	0.48
1:H:256:VAL:O	1:H:271:THR:HA	2.13	0.48
1:H:414:ASN:HB3	3:H:1267:HOH:O	2.14	0.48
1:H:529:GLU:OE2	1:H:531:ARG:HB2	2.13	0.48
1:H:536:CYS:O	1:H:566:PHE:HB2	2.14	0.48
1:H:738:PRO:HB2	1:H:834:VAL:HG23	1.94	0.48
1:H:786:ARG:HD2	1:H:934:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:810:TRP:O	1:H:811:LYS:C	2.55	0.48
1:I:155:ASN:ND2	1:I:182:ASN:OD1	2.33	0.48
1:I:780:LEU:HA	1:I:886:CYS:HB3	1.95	0.48
1:J:698:VAL:HG22	1:J:720:TRP:CZ3	2.47	0.48
1:J:878:HIS:HA	1:J:879:PRO:HD3	1.74	0.48
1:J:926:TYR:O	1:J:928:PRO:HD3	2.14	0.48
1:L:79:PRO:CG	1:L:80:GLU:HG2	2.39	0.48
1:L:322:LEU:CD2	1:L:324:GLU:N	2.77	0.48
1:M:53:SER:C	1:M:54:LEU:HD23	2.38	0.48
1:M:425:ARG:NH2	1:P:287:ASP:OD1	2.45	0.48
1:N:744:GLU:HA	1:N:760:ARG:NH1	2.29	0.48
1:O:127:PHE:CE1	1:O:184:LEU:HD12	2.49	0.48
1:P:60:PHE:HE2	1:P:62:TRP:HB2	1.78	0.48
1:P:85:VAL:O	1:P:88:SER:HB3	2.13	0.48
1:P:114:VAL:HG11	1:P:192:SER:N	2.29	0.48
1:P:194:GLY:O	1:P:195:SER:C	2.55	0.48
1:P:338:GLU:HG2	3:P:1259:HOH:O	2.14	0.48
1:P:661:LYS:O	1:P:663:LEU:HG	2.14	0.48
1:P:785:THR:HB	3:P:1250:HOH:O	2.13	0.48
1:B:778:THR:OG1	1:B:887:GLN:HB3	2.14	0.48
1:C:139:THR:O	1:C:139:THR:HG22	2.14	0.48
1:C:424:ASN:HD22	1:C:424:ASN:HA	1.31	0.48
1:E:387:VAL:HG22	1:E:388:ARG:N	2.29	0.48
1:E:486:TYR:CZ	1:E:488:GLY:HA3	2.48	0.48
1:E:742:THR:HG23	1:E:760:ARG:NH1	2.29	0.48
1:E:1003:VAL:N	3:E:1240:HOH:O	2.36	0.48
1:G:14:ARG:HG2	1:G:16:TRP:CZ2	2.49	0.48
1:G:154:CYS:O	1:G:156:GLY:N	2.47	0.48
1:G:308:LEU:HD13	1:G:329:ASP:HB2	1.95	0.48
1:G:525:SER:O	1:G:526:LEU:C	2.53	0.48
1:H:94:GLY:O	1:H:95:TYR:C	2.52	0.48
1:H:558:GLN:HB3	1:H:559:TYR:CD1	2.49	0.48
1:H:694:LEU:HD12	1:H:694:LEU:HA	1.64	0.48
1:I:26:ARG:C	1:I:27:LEU:O	2.57	0.48
1:I:191:TRP:O	1:I:192:SER:HB3	2.12	0.48
1:I:285:TYR:CB	1:I:288:ARG:HB2	2.44	0.48
1:I:533:LEU:HD12	1:I:534:ILE:N	2.29	0.48
1:J:7:LEU:N	1:J:71:GLU:OE2	2.47	0.48
1:J:209:PHE:H	1:J:209:PHE:HD1	1.57	0.48
1:J:352:ARG:NE	1:J:626:PHE:CE1	2.81	0.48
1:L:89:ASN:HD22	1:L:205:MET:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:89:ASN:ND2	1:L:205:MET:HB3	2.29	0.48
1:L:796:SER:HG	1:L:801:ILE:HA	1.78	0.48
1:M:23:GLN:CB	1:M:26:ARG:HH21	2.10	0.48
1:M:78:LEU:HB3	1:M:79:PRO:CD	2.39	0.48
1:M:100:TYR:HB2	1:M:203:TRP:CE3	2.49	0.48
1:M:308:LEU:HD13	1:M:329:ASP:HB3	1.96	0.48
1:M:500:CYS:HA	1:M:534:ILE:O	2.14	0.48
1:M:890:GLN:HG3	1:M:891:VAL:N	2.23	0.48
1:M:904:GLU:O	1:M:904:GLU:HG2	2.13	0.48
1:N:66:PRO:HB3	1:N:187:MET:HE1	1.96	0.48
1:N:694:LEU:O	1:N:722:LEU:N	2.47	0.48
1:O:375:ASP:CG	1:O:611:ARG:HH21	2.21	0.48
1:O:763:GLY:HA3	1:O:822:LEU:HD22	1.96	0.48
1:O:854:LYS:HG3	3:O:1216:HOH:O	2.14	0.48
1:P:127:PHE:O	1:P:182:ASN:HB2	2.13	0.48
1:P:161:TYR:O	1:P:171:PHE:HZ	1.95	0.48
1:P:197:LEU:C	1:P:198:GLU:HG3	2.38	0.48
1:P:225:PHE:CD2	1:P:313:VAL:HG21	2.48	0.48
1:P:354:VAL:CG2	1:P:570:TRP:HB2	2.41	0.48
1:P:738:PRO:CA	1:P:751:LEU:HD12	2.43	0.48
1:P:935:ASN:C	1:P:937:LEU:H	2.21	0.48
1:P:957:PHE:CD1	1:P:958:ASN:N	2.82	0.48
1:A:91:GLN:C	1:A:93:HIS:H	2.22	0.48
1:A:844:HIS:ND1	1:A:845:GLN:HG3	2.29	0.48
1:A:856:TYR:N	1:A:856:TYR:CD1	2.82	0.48
1:A:968:MET:HG3	1:A:968:MET:O	2.14	0.48
1:B:80:GLU:H	1:B:80:GLU:HG3	1.29	0.48
1:B:433:LEU:N	1:B:434:PRO:HD2	2.28	0.48
1:C:251:ARG:HB3	1:C:253:TYR:CE1	2.48	0.48
1:D:127:PHE:N	1:D:127:PHE:CD1	2.82	0.48
1:D:509:ASP:O	1:D:511:PRO:HD3	2.13	0.48
1:D:782:ASP:HB2	1:D:842:TRP:CH2	2.48	0.48
1:D:894:ARG:CZ	1:D:921:PRO:HD3	2.42	0.48
1:E:202:MET:HE2	1:E:365:GLN:NE2	2.29	0.48
1:F:109:VAL:O	1:F:109:VAL:HG12	2.12	0.48
1:G:22:THR:OG1	1:G:438:GLU:OE1	2.30	0.48
1:G:83:THR:HG22	1:G:84:VAL:N	2.28	0.48
1:G:357:HIS:HD2	1:G:392:TYR:OH	1.97	0.48
1:G:655:MET:O	1:G:655:MET:HG2	2.12	0.48
1:H:30:HIS:HB2	1:H:31:PRO:CD	2.43	0.48
1:H:786:ARG:HG2	1:H:880:ALA:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:38:ASN:HD22	1:I:41:GLU:HG3	1.77	0.48
1:J:210:ARG:NH1	1:J:395:HIS:N	2.62	0.48
1:J:395:HIS:CG	1:J:396:PRO:HD2	2.49	0.48
1:K:601:PHE:CZ	1:K:795:VAL:HG12	2.47	0.48
1:K:656:VAL:HG21	1:K:685:LEU:HD23	1.95	0.48
1:L:743:SER:HB3	1:L:746:ASP:OD1	2.14	0.48
1:M:437:SER:O	1:M:441:THR:OG1	2.29	0.48
1:M:653:HIS:CD2	1:M:667:GLU:HG2	2.49	0.48
1:N:426:LEU:HD22	1:N:432:TRP:CE2	2.48	0.48
1:N:658:LEU:O	1:N:661:LYS:N	2.32	0.48
1:N:783:GLN:NE2	1:N:985:ASN:OD1	2.40	0.48
1:O:738:PRO:CB	1:O:751:LEU:HD12	2.44	0.48
1:P:743:SER:O	1:P:760:ARG:NH1	2.44	0.48
1:B:84:VAL:CG1	1:B:85:VAL:N	2.77	0.48
1:B:155:ASN:ND2	1:B:182:ASN:OD1	2.37	0.48
1:B:205:MET:O	1:B:206:SER:HB3	2.14	0.48
1:C:326:GLU:OE1	1:C:326:GLU:HA	2.14	0.48
1:C:525:SER:O	1:C:526:LEU:C	2.55	0.48
1:D:536:CYS:O	1:D:537:GLU:HG3	2.13	0.48
1:D:702:GLN:O	1:D:703:PRO:C	2.55	0.48
1:D:767:GLN:OE1	1:D:768:MET:O	2.32	0.48
1:E:91:GLN:H	1:E:91:GLN:CD	2.18	0.48
1:E:91:GLN:C	1:E:93:HIS:H	2.20	0.48
1:F:100:TYR:O	1:F:597:ASN:HA	2.13	0.48
1:F:101:THR:HG22	1:F:598:ASP:OD2	2.14	0.48
1:F:934:GLU:HG3	1:F:935:ASN:N	2.27	0.48
1:G:360:HIS:ND1	1:G:362:LEU:HB2	2.27	0.48
1:G:822:LEU:HD12	1:G:824:GLN:H	1.79	0.48
1:H:18:ASN:HD22	1:H:21:VAL:HG23	1.79	0.48
1:H:321:THR:O	1:H:323:ILE:HD12	2.14	0.48
1:H:391:HIS:CD2	1:H:460:ASN:ND2	2.82	0.48
1:H:456:TRP:HZ2	1:H:482:ARG:NH1	2.11	0.48
1:H:737:ILE:O	1:H:738:PRO:C	2.55	0.48
1:I:719:GLN:OE1	1:I:915:PHE:N	2.39	0.48
1:J:547:GLY:HA2	1:J:908:ASP:O	2.14	0.48
1:J:881:ARG:HD3	1:J:881:ARG:HH11	1.45	0.48
1:K:120:THR:HG23	1:K:189:LEU:CD2	2.44	0.48
1:K:689:GLU:O	1:K:690:SER:C	2.57	0.48
1:L:18:ASN:O	1:L:21:VAL:O	2.32	0.48
1:L:90:TRP:HE1	1:L:96:ASP:CG	2.21	0.48
1:L:188:VAL:HG12	1:L:189:LEU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:278:ILE:H	1:L:278:ILE:CD1	2.04	0.48
1:L:278:ILE:HG23	1:L:283:GLY:HA2	1.96	0.48
1:L:410:VAL:O	1:L:410:VAL:HG12	2.12	0.48
1:L:768:MET:HE1	1:L:1022:GLN:NE2	2.28	0.48
1:L:810:TRP:O	1:L:813:ALA:HB3	2.14	0.48
1:M:173:LEU:HD23	1:M:173:LEU:HA	1.72	0.48
1:M:236:SER:HB2	1:M:237:ARG:HD3	1.94	0.48
1:M:343:LEU:HD23	1:M:348:PRO:HA	1.96	0.48
1:M:357:HIS:HE1	1:M:568:TRP:HH2	1.60	0.48
1:M:553:TRP:HB3	1:M:557:ARG:HH12	1.78	0.48
1:M:782:ASP:HB2	1:M:842:TRP:CZ2	2.48	0.48
1:M:796:SER:HG	1:M:801:ILE:HA	1.77	0.48
1:N:9:VAL:O	1:N:12:GLN:HB3	2.13	0.48
1:N:367:MET:HE3	1:N:368:ASP:H	1.79	0.48
1:N:457:SER:HA	1:N:485:GLN:O	2.14	0.48
1:N:564:GLY:N	3:N:1220:HOH:O	2.43	0.48
1:N:796:SER:OG	1:N:808:GLU:HG3	2.14	0.48
1:O:410:VAL:HG22	1:O:455:ILE:HB	1.96	0.48
1:O:544:ASN:HB2	1:O:929:TYR:CE2	2.49	0.48
1:O:653:HIS:ND1	1:O:701:VAL:HG21	2.29	0.48
1:P:93:HIS:HB3	1:P:95:TYR:HE1	1.78	0.48
1:P:806:TRP:O	1:P:807:VAL:C	2.57	0.48
1:A:432:TRP:O	1:A:435:ALA:HB3	2.14	0.47
1:A:738:PRO:N	1:A:751:LEU:HD12	2.28	0.47
1:A:937:LEU:HG	1:A:938:ARG:N	2.29	0.47
1:A:1004:SER:OG	1:A:1006:GLU:OE2	2.31	0.47
1:B:668:VAL:HG12	1:B:669:PRO:HD2	1.95	0.47
1:B:825:CYS:HA	1:B:837:THR:O	2.14	0.47
1:C:7:LEU:HB2	1:C:71:GLU:OE2	2.13	0.47
1:C:145:GLY:HA3	1:C:210:ARG:HG3	1.96	0.47
1:C:465:GLY:O	1:C:468:HIS:HB2	2.14	0.47
1:D:734:SER:CB	1:D:860:GLY:HA3	2.44	0.47
1:E:161:TYR:CG	1:E:162:GLY:N	2.82	0.47
1:E:361:PRO:HA	1:E:574:SER:O	2.13	0.47
1:E:527:PRO:HA	3:E:1256:HOH:O	2.13	0.47
1:E:651:LEU:HD12	1:E:652:LEU:H	1.79	0.47
1:F:218:PRO:HD2	1:F:324:GLU:OE1	2.14	0.47
1:F:225:PHE:C	1:F:226:HIS:HD2	2.22	0.47
1:F:402:CYS:HB3	1:F:407:LEU:HB2	1.95	0.47
1:G:814:GLY:O	1:G:817:GLN:N	2.32	0.47
1:G:820:ALA:HB2	1:G:842:TRP:NE1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:52:ARG:N	1:H:214:LEU:O	2.43	0.47
1:H:110:ASN:ND2	1:H:113:PHE:CD2	2.80	0.47
1:H:267:VAL:O	1:H:268:ALA:HB2	2.14	0.47
1:H:331:GLY:HA2	3:H:1212:HOH:O	2.14	0.47
1:H:567:VAL:HG12	1:H:568:TRP:N	2.28	0.47
1:H:745:MET:CE	1:H:761:GLN:NE2	2.77	0.47
1:H:786:ARG:HD3	1:H:990:HIS:HE1	1.78	0.47
1:H:799:THR:C	1:H:800:ARG:HG3	2.39	0.47
1:I:377:LEU:HD23	1:I:377:LEU:HA	1.51	0.47
1:I:447:ASP:HA	3:I:1203:HOH:O	2.14	0.47
1:I:579:ASP:O	1:I:582:GLY:N	2.47	0.47
1:J:277:GLU:H	1:J:277:GLU:HG3	1.29	0.47
1:K:18:ASN:ND2	1:K:21:VAL:HG23	2.28	0.47
1:K:63:PHE:HB3	1:K:64:PRO:HD2	1.96	0.47
1:K:531:ARG:O	1:K:561:ARG:NH1	2.29	0.47
1:K:758:PHE:O	1:K:759:ASN:C	2.54	0.47
1:K:974:HIS:C	1:K:975:LEU:HD23	2.39	0.47
1:L:413:ALA:CB	1:L:443:MET:HE2	2.44	0.47
1:L:485:GLN:O	1:L:486:TYR:HB2	2.14	0.47
1:M:120:THR:HG21	1:M:187:MET:HE3	1.96	0.47
1:M:572:ASP:OD1	1:M:607:VAL:O	2.32	0.47
1:N:120:THR:HG22	1:N:121:GLY:N	2.29	0.47
1:N:802:ASP:O	1:N:803:PRO:C	2.56	0.47
1:N:892:ALA:HB3	1:N:946:TYR:CE1	2.49	0.47
1:O:403:ASP:OD2	1:O:450:HIS:ND1	2.39	0.47
1:O:578:TYR:HA	1:O:583:ASN:O	2.13	0.47
1:O:587:ALA:HB1	1:O:591:ASP:HB3	1.96	0.47
1:P:547:GLY:N	1:P:994:GLY:O	2.46	0.47
1:P:1019:VAL:O	1:P:1019:VAL:HG12	2.13	0.47
1:A:336:ARG:HH21	1:A:338:GLU:CD	2.22	0.47
1:A:696:LEU:O	1:A:719:GLN:HB2	2.13	0.47
1:B:48:SER:OG	1:B:50:GLN:HB2	2.14	0.47
1:B:433:LEU:HD13	1:B:467:ASN:HB3	1.97	0.47
1:B:906:TYR:HB3	1:B:907:PRO:HD2	1.96	0.47
1:D:36:TRP:CE2	1:D:42:ALA:HA	2.50	0.47
1:E:70:PRO:O	1:E:73:TRP:HB3	2.14	0.47
1:E:506:VAL:HG12	1:E:507:ASP:CG	2.39	0.47
1:E:544:ASN:HB3	1:E:789:LEU:HD22	1.96	0.47
1:E:951:TRP:HE3	1:E:951:TRP:H	1.62	0.47
1:E:963:SER:N	1:E:979:GLU:OE2	2.28	0.47
1:G:533:LEU:HD12	1:G:533:LEU:C	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:954:ASP:OD2	1:H:1013:ARG:NH2	2.47	0.47
1:H:161:TYR:CG	1:H:162:GLY:N	2.82	0.47
1:H:352:ARG:HB2	1:H:385:ASN:HB2	1.96	0.47
1:H:393:PRO:CD	1:H:414:ASN:HB2	2.40	0.47
1:I:40:GLU:O	1:I:41:GLU:C	2.55	0.47
1:I:460:ASN:HD21	1:I:461:GLU:HG3	1.79	0.47
1:J:204:ARG:HD2	3:J:1259:HOH:O	2.14	0.47
1:J:358:GLU:HB3	1:J:367:MET:CG	2.44	0.47
1:K:317:THR:HG23	1:K:323:ILE:HD11	1.96	0.47
1:K:706:THR:N	1:K:709:SER:O	2.34	0.47
1:L:66:PRO:O	1:L:67:GLU:C	2.57	0.47
1:L:487:GLU:O	1:L:491:ALA:N	2.47	0.47
1:M:6:SER:O	1:M:9:VAL:N	2.48	0.47
1:M:499:ILE:O	1:M:533:LEU:HA	2.14	0.47
1:M:879:PRO:O	1:M:1009:LEU:HD12	2.14	0.47
1:N:807:VAL:HG13	1:N:808:GLU:N	2.28	0.47
1:P:220:THR:O	1:P:323:ILE:HG21	2.14	0.47
1:P:227:VAL:HG13	1:P:228:ALA:N	2.29	0.47
1:P:967:LEU:HA	1:P:967:LEU:HD23	1.28	0.47
1:P:1020:TRP:HD1	1:P:1021:CYS:N	2.12	0.47
1:B:356:ARG:CD	1:B:379:MET:HE1	2.41	0.47
1:B:788:PRO:CG	1:B:968:MET:HE3	2.44	0.47
1:C:599:ARG:HB2	1:C:600:GLN:H	1.45	0.47
1:D:297:ASN:N	1:D:298:PRO:HD3	2.29	0.47
1:D:708:TRP:CZ3	1:D:709:SER:HB3	2.48	0.47
1:E:30:HIS:HB2	1:E:31:PRO:HD2	1.94	0.47
1:E:35:SER:O	1:E:36:TRP:O	2.33	0.47
1:E:69:VAL:HG13	1:E:70:PRO:CD	2.37	0.47
1:E:515:VAL:N	1:E:516:PRO:HD3	2.29	0.47
1:E:581:ASN:HB2	1:E:583:ASN:HD21	1.79	0.47
1:E:653:HIS:HD2	1:E:667:GLU:CB	2.28	0.47
1:E:670:LEU:HD23	1:E:670:LEU:HA	1.59	0.47
1:F:423:MET:N	1:G:280:ASP:OD2	2.47	0.47
1:G:138:GLN:N	1:G:217:LYS:O	2.31	0.47
1:G:347:LYS:HG3	1:G:644:PHE:HE1	1.77	0.47
1:G:589:GLY:HA3	1:G:599:ARG:O	2.13	0.47
1:G:817:GLN:HG2	3:G:1208:HOH:O	2.14	0.47
1:G:866:ILE:N	1:G:1018:LEU:O	2.41	0.47
1:H:5:ASP:CG	1:H:157:ARG:HA	2.38	0.47
1:H:478:VAL:O	1:H:478:VAL:HG12	2.14	0.47
1:H:595:THR:HA	1:H:596:PRO:C	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:928:PRO:HB2	1:H:973:ARG:NH1	2.25	0.47
1:H:932:PRO:HG2	1:H:970:THR:O	2.14	0.47
1:I:274:PHE:HB3	1:I:286:ALA:O	2.15	0.47
1:I:427:THR:CG2	1:I:436:MET:HE1	2.45	0.47
1:J:77:ASP:C	1:J:78:LEU:HD23	2.39	0.47
1:J:391:HIS:HA	1:J:412:GLU:OE2	2.14	0.47
1:J:437:SER:O	1:J:441:THR:HG23	2.14	0.47
1:J:651:LEU:N	1:J:701:VAL:O	2.41	0.47
1:J:658:LEU:O	1:J:661:LYS:HD3	2.13	0.47
1:J:822:LEU:HD12	1:J:824:GLN:H	1.78	0.47
1:K:10:VAL:O	1:K:12:GLN:N	2.47	0.47
1:L:375:ASP:CG	1:L:570:TRP:HE1	2.18	0.47
1:L:959:ILE:HG23	1:L:959:ILE:O	2.13	0.47
1:M:102:ASN:HB2	1:M:201:ASP:OD1	2.14	0.47
1:M:456:TRP:CZ2	1:M:482:ARG:HD2	2.50	0.47
1:M:685:LEU:CB	1:M:686:PRO:HD2	2.35	0.47
1:N:608:PHE:HB2	1:N:612:THR:OG1	2.14	0.47
1:N:622:HIS:O	1:N:625:GLN:HG2	2.14	0.47
1:N:696:LEU:HB2	1:N:722:LEU:HD11	1.96	0.47
1:N:837:THR:C	1:N:838:THR:HG23	2.40	0.47
1:N:882:ILE:O	1:N:882:ILE:HG22	2.13	0.47
1:N:933:SER:O	1:N:934:GLU:C	2.55	0.47
1:O:745:MET:SD	1:O:761:GLN:NE2	2.87	0.47
1:P:200:GLN:C	1:P:204:ARG:HH21	2.23	0.47
1:P:377:LEU:HD23	1:P:708:TRP:CA	2.37	0.47
1:P:559:TYR:HB2	1:P:562:LEU:CD1	2.34	0.47
1:P:590:GLY:N	1:P:594:ASP:OD1	2.48	0.47
1:P:951:TRP:N	1:P:951:TRP:HE3	2.12	0.47
1:B:38:ASN:ND2	1:B:41:GLU:HG3	2.19	0.47
1:B:43:ARG:HD2	1:B:261:TRP:CD2	2.50	0.47
1:C:469:ASP:O	1:C:470:ALA:C	2.56	0.47
1:D:444:VAL:O	1:D:448:ARG:HG2	2.14	0.47
1:D:493:THR:HG23	3:D:1209:HOH:O	2.13	0.47
1:D:658:LEU:O	1:D:659:ASP:C	2.57	0.47
1:E:253:TYR:H	1:E:253:TYR:HD1	1.59	0.47
1:F:588:TYR:O	1:F:589:GLY:C	2.57	0.47
1:F:651:LEU:HD12	1:F:652:LEU:H	1.80	0.47
1:G:337:ILE:HD13	1:G:337:ILE:HG21	1.56	0.47
1:G:433:LEU:N	1:G:434:PRO:HD2	2.30	0.47
1:H:140:ARG:HB2	1:H:171:PHE:O	2.15	0.47
1:H:210:ARG:HH11	1:H:395:HIS:CA	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:210:ARG:O	1:H:211:ASP:C	2.56	0.47
1:H:388:ARG:NH1	1:H:536:CYS:HB2	2.29	0.47
1:H:393:PRO:HD2	1:H:414:ASN:CB	2.39	0.47
1:H:427:THR:HG21	1:H:468:HIS:CE1	2.49	0.47
1:H:487:GLU:O	1:H:491:ALA:N	2.45	0.47
1:H:768:MET:HG2	1:H:775:GLN:HB2	1.96	0.47
1:I:127:PHE:CD1	1:I:127:PHE:N	2.81	0.47
1:I:131:GLU:O	1:I:134:LEU:HB2	2.15	0.47
1:I:645:ARG:NH2	1:I:650:GLU:OE1	2.46	0.47
1:I:836:ILE:N	1:I:836:ILE:CD1	2.77	0.47
1:I:966:GLN:OE1	1:I:976:LEU:HA	2.14	0.47
1:J:433:LEU:HB3	1:J:434:PRO:CD	2.40	0.47
1:J:657:ALA:HA	1:J:661:LYS:O	2.13	0.47
1:K:501:PRO:HD2	1:K:533:LEU:HD11	1.95	0.47
1:K:653:HIS:HA	1:K:666:GLY:O	2.13	0.47
1:K:916:ASP:H	1:K:918:TRP:HE1	1.62	0.47
1:L:107:ILE:HG21	1:L:191:TRP:CE2	2.49	0.47
1:L:655:MET:HG3	1:L:665:SER:OG	2.15	0.47
1:L:896:ASN:HA	1:L:918:TRP:O	2.14	0.47
1:M:506:VAL:HG12	1:M:507:ASP:CG	2.38	0.47
1:N:576:ILE:HG22	1:N:577:LYS:N	2.29	0.47
1:N:706:THR:HG23	1:N:709:SER:OG	2.14	0.47
1:N:806:TRP:O	1:N:807:VAL:C	2.57	0.47
1:O:816:TYR:HB2	3:O:1209:HOH:O	2.13	0.47
1:O:925:MET:HE3	3:O:1275:HOH:O	2.15	0.47
1:P:159:VAL:HG22	1:P:176:PHE:CE2	2.49	0.47
1:P:197:LEU:HD23	1:P:426:LEU:HD12	1.96	0.47
1:P:599:ARG:HB2	1:P:600:GLN:H	1.42	0.47
1:P:962:TYR:HD2	1:P:966:GLN:HE22	1.61	0.47
1:A:11:LEU:O	1:A:12:GLN:C	2.56	0.47
1:A:825:CYS:HA	1:A:837:THR:O	2.15	0.47
1:A:877:PRO:O	1:A:878:HIS:C	2.52	0.47
1:B:101:THR:HG21	1:B:104:THR:O	2.14	0.47
1:B:559:TYR:N	1:B:559:TYR:CD1	2.80	0.47
1:B:782:ASP:OD2	1:B:854:LYS:NZ	2.40	0.47
1:D:30:HIS:ND1	1:D:33:PHE:CE2	2.82	0.47
1:D:427:THR:CB	1:D:436:MET:HE1	2.44	0.47
1:D:894:ARG:HH22	1:D:921:PRO:HD3	1.77	0.47
1:E:147:ASN:HA	1:E:148:SER:HA	1.67	0.47
1:E:569:ASP:O	1:E:605:GLY:HA2	2.15	0.47
1:F:399:TYR:CE2	1:F:446:ARG:NH2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:856:TYR:CD2	1:F:864:MET:CE	2.98	0.47
1:F:921:PRO:O	1:F:923:SER:N	2.47	0.47
1:F:967:LEU:HD23	1:F:967:LEU:HA	1.58	0.47
1:G:66:PRO:HD2	1:G:67:GLU:HG2	1.95	0.47
1:G:663:LEU:CD1	1:G:688:PRO:HG3	2.44	0.47
1:H:764:PHE:CE1	1:H:840:HIS:CE1	3.03	0.47
1:I:46:ARG:HB3	1:I:47:PRO:HD2	1.96	0.47
1:I:102:ASN:HD22	1:I:102:ASN:C	2.21	0.47
1:I:246:MET:HG2	1:I:274:PHE:CZ	2.49	0.47
1:I:513:PRO:C	1:I:515:VAL:H	2.22	0.47
1:I:618:THR:HG22	1:I:912:ALA:HB1	1.96	0.47
1:I:626:PHE:O	1:I:641:GLU:HB2	2.14	0.47
1:J:742:THR:HG23	1:J:747:PHE:HD1	1.76	0.47
1:K:67:GLU:HG2	1:K:67:GLU:H	1.09	0.47
1:K:210:ARG:NH1	1:K:395:HIS:N	2.63	0.47
1:K:388:ARG:NE	1:K:412:GLU:OE2	2.46	0.47
1:K:436:MET:HE3	1:K:467:ASN:ND2	2.30	0.47
1:K:473:ARG:O	1:K:474:TRP:C	2.57	0.47
1:K:644:PHE:O	1:K:674:PRO:HG3	2.15	0.47
1:K:908:ASP:HB3	1:K:1007:PHE:CD2	2.50	0.47
1:K:961:ARG:HE	1:K:961:ARG:HB3	1.38	0.47
1:L:782:ASP:OD1	1:L:842:TRP:HH2	1.98	0.47
1:M:205:MET:O	1:M:206:SER:HB3	2.15	0.47
1:M:218:PRO:HD2	1:M:324:GLU:OE2	2.14	0.47
1:M:568:TRP:NE1	1:M:569:ASP:OD2	2.48	0.47
1:M:797:GLU:O	1:M:800:ARG:O	2.32	0.47
1:O:146:VAL:HG12	1:O:188:VAL:CG1	2.44	0.47
1:O:205:MET:HE1	1:O:364:GLY:HA2	1.95	0.47
1:O:620:ALA:O	1:O:621:LYS:C	2.56	0.47
1:O:651:LEU:HD13	1:O:651:LEU:HA	1.59	0.47
1:P:51:LEU:HD12	1:P:52:ARG:N	2.30	0.47
1:P:79:PRO:HG2	1:P:80:GLU:CG	2.43	0.47
1:A:349:LEU:HD13	1:A:351:ILE:HD11	1.97	0.47
1:A:467:ASN:N	1:A:467:ASN:OD1	2.46	0.47
1:A:823:LEU:HB2	1:A:839:ALA:O	2.14	0.47
1:A:970:THR:CG2	1:A:975:LEU:HB2	2.45	0.47
1:C:91:GLN:HE21	1:C:190:ARG:NH1	2.12	0.47
1:C:147:ASN:HA	1:C:148:SER:HA	1.66	0.47
1:C:168:PRO:O	1:C:442:ARG:NH2	2.43	0.47
1:D:260:LEU:HB3	1:D:267:VAL:HG12	1.96	0.47
1:D:719:GLN:HE22	1:D:914:CYS:HB2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:942:ARG:HA	1:D:953:GLY:O	2.14	0.47
1:E:91:GLN:HB3	1:E:98:PRO:HD3	1.95	0.47
1:E:608:PHE:O	1:E:611:ARG:N	2.28	0.47
1:E:995:GLY:C	1:E:997:ASP:H	2.21	0.47
1:F:616:ALA:O	1:F:617:LEU:C	2.57	0.47
1:F:797:GLU:N	1:F:800:ARG:O	2.40	0.47
1:G:173:LEU:O	1:G:176:PHE:N	2.46	0.47
1:G:625:GLN:HB2	1:G:716:ALA:HB2	1.95	0.47
1:G:743:SER:OG	1:G:744:GLU:N	2.46	0.47
1:G:1020:TRP:CD1	1:G:1021:CYS:N	2.79	0.47
1:H:90:TRP:O	1:H:93:HIS:HB2	2.14	0.47
1:H:570:TRP:HD1	1:H:571:VAL:CG2	2.24	0.47
1:I:217:LYS:HZ3	1:I:324:GLU:CD	2.22	0.47
1:I:802:ASP:C	1:I:804:ASN:H	2.23	0.47
1:I:870:VAL:CG1	1:I:871:GLU:N	2.78	0.47
1:J:54:LEU:HD23	1:J:54:LEU:N	2.28	0.47
1:J:91:GLN:C	1:J:93:HIS:H	2.22	0.47
1:J:228:ALA:C	1:J:229:THR:HG23	2.40	0.47
1:J:473:ARG:HD2	1:J:473:ARG:HA	1.40	0.47
1:K:14:ARG:NH1	1:K:16:TRP:CZ2	2.81	0.47
1:K:608:PHE:CD2	1:K:614:HIS:CE1	3.02	0.47
1:L:36:TRP:CD2	1:L:42:ALA:CA	2.98	0.47
1:L:217:LYS:HZ2	1:L:324:GLU:CD	2.22	0.47
1:L:668:VAL:HG12	1:L:669:PRO:N	2.30	0.47
1:L:926:TYR:O	1:L:928:PRO:HD3	2.13	0.47
1:M:7:LEU:HA	1:M:10:VAL:HG23	1.95	0.47
1:M:65:ALA:HB1	1:M:66:PRO:HD2	1.96	0.47
1:M:164:ASP:HA	1:M:439:ARG:HH12	1.80	0.47
1:M:689:GLU:O	1:M:690:SER:O	2.32	0.47
1:M:923:SER:C	1:M:925:MET:H	2.22	0.47
1:N:473:ARG:HD3	1:N:473:ARG:HA	1.53	0.47
1:N:577:LYS:O	1:N:584:PRO:HA	2.14	0.47
1:O:13:ARG:H	1:O:13:ARG:HG3	1.37	0.47
1:O:972:HIS:HB3	1:O:974:HIS:ND1	2.29	0.47
1:P:315:LEU:O	1:P:323:ILE:HB	2.14	0.47
1:P:932:PRO:HG2	1:P:970:THR:HB	1.97	0.47
1:A:6:SER:O	1:A:9:VAL:N	2.48	0.47
1:A:322:LEU:HD21	1:A:324:GLU:O	2.15	0.47
1:A:322:LEU:CD2	1:A:324:GLU:N	2.78	0.47
1:A:487:GLU:O	1:A:491:ALA:N	2.47	0.47
1:A:833:ALA:HB2	1:A:859:ASP:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:129:VAL:HG23	1:B:182:ASN:ND2	2.30	0.47
1:B:282:ARG:HD3	1:C:420:MET:O	2.14	0.47
1:B:856:TYR:HD2	1:B:866:ILE:HD13	1.75	0.47
1:B:856:TYR:CE2	1:B:866:ILE:HD13	2.50	0.47
1:B:869:ASP:CG	1:B:1015:HIS:HD1	2.23	0.47
1:C:227:VAL:HG12	1:C:228:ALA:N	2.29	0.47
1:D:13:ARG:O	1:D:14:ARG:HB2	2.15	0.47
1:D:142:ILE:HG23	1:D:170:GLU:CG	2.36	0.47
1:D:234:ASP:O	1:D:236:SER:N	2.47	0.47
1:D:424:ASN:HB2	3:D:1232:HOH:O	2.14	0.47
1:D:866:ILE:N	1:D:1018:LEU:O	2.39	0.47
1:D:1018:LEU:HA	1:D:1018:LEU:HD23	1.67	0.47
1:E:91:GLN:HE21	1:E:190:ARG:HH21	1.63	0.47
1:E:102:ASN:ND2	1:E:201:ASP:HB2	2.29	0.47
1:E:141:ILE:HD12	1:E:143:PHE:CE1	2.49	0.47
1:E:274:PHE:CD2	1:E:288:ARG:N	2.83	0.47
1:E:383:ASN:ND2	1:E:625:GLN:HA	2.30	0.47
1:E:395:HIS:HA	1:E:396:PRO:HD3	1.75	0.47
1:E:598:ASP:O	1:E:601:PHE:HB2	2.15	0.47
1:E:944:LEU:O	1:E:951:TRP:HE3	1.97	0.47
1:F:167:LEU:CD2	1:F:168:PRO:HD2	2.45	0.47
1:F:608:PHE:O	1:F:610:ASP:N	2.48	0.47
1:F:747:PHE:CZ	1:F:760:ARG:NE	2.83	0.47
1:F:835:LEU:O	1:F:836:ILE:HD13	2.13	0.47
1:F:859:ASP:CG	1:F:861:SER:H	2.23	0.47
1:G:356:ARG:HD2	1:G:379:MET:HE1	1.97	0.47
1:G:509:ASP:O	1:G:511:PRO:HD3	2.14	0.47
1:G:513:PRO:O	1:G:514:ALA:HB3	2.15	0.47
1:G:572:ASP:HB2	3:G:1290:HOH:O	2.15	0.47
1:G:616:ALA:O	1:G:618:THR:N	2.48	0.47
1:G:658:LEU:O	1:G:660:GLY:N	2.48	0.47
1:G:668:VAL:HG13	1:G:669:PRO:CD	2.43	0.47
1:G:668:VAL:HG12	1:G:669:PRO:O	2.14	0.47
1:G:685:LEU:CB	1:G:686:PRO:HD2	2.37	0.47
1:H:36:TRP:CE3	1:H:42:ALA:HB2	2.50	0.47
1:H:106:PRO:HD3	1:H:204:ARG:NH1	2.30	0.47
1:H:510:GLN:HA	1:H:511:PRO:HD2	1.70	0.47
1:H:599:ARG:NH2	1:H:796:SER:O	2.47	0.47
1:H:718:GLN:CG	1:H:719:GLN:H	2.20	0.47
1:H:989:PHE:CE1	1:H:1014:TYR:HD2	2.32	0.47
1:I:316:HIS:HA	1:I:323:ILE:CD1	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:824:GLN:HG3	1:I:825:CYS:N	2.30	0.47
1:I:881:ARG:C	1:I:882:ILE:HG13	2.40	0.47
1:J:598:ASP:O	1:J:599:ARG:C	2.55	0.47
1:K:36:TRP:C	1:K:37:ARG:HG2	2.39	0.47
1:K:111:PRO:HA	1:K:112:PRO:HA	1.63	0.47
1:K:261:TRP:CA	1:K:267:VAL:HG23	2.35	0.47
1:K:350:LEU:HD21	1:K:553:TRP:HZ3	1.77	0.47
1:K:433:LEU:O	1:K:437:SER:HB3	2.15	0.47
1:K:655:MET:SD	1:K:662:PRO:HB3	2.55	0.47
1:K:941:THR:O	1:K:954:ASP:HA	2.13	0.47
1:L:74:LEU:HD22	1:L:153:TRP:CD1	2.49	0.47
1:L:134:LEU:HD11	1:L:177:LEU:HB2	1.96	0.47
1:L:208:ILE:HG22	1:L:208:ILE:O	2.13	0.47
1:L:317:THR:O	1:L:320:GLY:N	2.40	0.47
1:L:499:ILE:O	1:L:533:LEU:HA	2.15	0.47
1:L:654:TRP:CE2	1:L:682:LEU:HD22	2.49	0.47
1:L:902:PRO:HD3	1:L:918:TRP:CH2	2.50	0.47
1:M:61:ALA:HB3	1:M:122:CYS:HB2	1.96	0.47
1:M:166:ARG:HD2	1:M:166:ARG:HA	1.41	0.47
1:M:195:SER:O	1:M:197:LEU:N	2.47	0.47
1:M:232:ASN:OD1	1:M:237:ARG:O	2.33	0.47
1:M:295:VAL:HG21	1:M:332:PHE:CZ	2.49	0.47
1:M:315:LEU:O	1:M:323:ILE:HB	2.13	0.47
1:M:456:TRP:CZ2	1:M:482:ARG:NH1	2.79	0.47
1:M:734:SER:HB3	1:M:860:GLY:HA3	1.96	0.47
1:N:67:GLU:H	1:N:67:GLU:HG2	1.34	0.47
1:N:152:LEU:HG	1:N:153:TRP:N	2.30	0.47
1:N:255:ARG:HD2	1:N:273:PRO:HA	1.97	0.47
1:N:479:ASP:HA	1:N:480:PRO:HD2	1.70	0.47
1:N:579:ASP:O	1:N:582:GLY:N	2.38	0.47
1:N:867:THR:O	1:N:867:THR:HG22	2.14	0.47
1:O:24:LEU:HD12	1:O:24:LEU:HA	1.63	0.47
1:O:36:TRP:CG	1:O:42:ALA:HB2	2.49	0.47
1:O:131:GLU:HB2	1:O:135:GLN:NE2	2.30	0.47
1:O:146:VAL:HG12	1:O:188:VAL:HG13	1.97	0.47
1:O:155:ASN:C	1:O:157:ARG:H	2.23	0.47
1:O:413:ALA:O	1:O:415:ILE:N	2.46	0.47
1:O:737:ILE:HG13	1:O:738:PRO:N	2.28	0.47
1:O:767:GLN:CG	1:O:768:MET:N	2.78	0.47
1:P:34:ALA:CB	1:P:36:TRP:CE3	2.98	0.47
1:P:139:THR:CG2	1:P:177:LEU:HD12	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:201:ASP:O	1:P:202:MET:HB3	2.14	0.47
1:P:305:ILE:HG22	1:P:305:ILE:O	2.14	0.47
1:P:316:HIS:C	1:P:323:ILE:HD13	2.40	0.47
1:P:331:GLY:HA3	1:P:451:PRO:CB	2.45	0.47
1:P:606:LEU:HD13	1:P:617:LEU:CD1	2.43	0.47
1:P:904:GLU:HG2	1:P:909:ARG:HH22	1.80	0.47
1:P:925:MET:HE3	1:P:925:MET:HB3	1.68	0.47
1:A:204:ARG:HH11	1:A:204:ARG:HG3	1.80	0.47
1:A:801:ILE:HG23	1:A:808:GLU:CD	2.39	0.47
1:B:102:ASN:C	1:B:102:ASN:HD22	2.22	0.47
1:C:208:ILE:HG22	1:C:208:ILE:O	2.13	0.47
1:C:209:PHE:HD1	1:C:209:PHE:H	1.62	0.47
1:D:111:PRO:HG3	1:D:196:TYR:CE1	2.50	0.47
1:D:753:ASN:OD1	1:D:753:ASN:N	2.44	0.47
1:E:100:TYR:HB2	1:E:203:TRP:CZ3	2.49	0.47
1:E:451:PRO:O	1:E:452:SER:C	2.56	0.47
1:E:1005:ALA:O	1:E:1007:PHE:N	2.47	0.47
1:F:513:PRO:O	1:F:514:ALA:HB3	2.14	0.47
1:F:719:GLN:HE22	1:F:914:CYS:HB2	1.78	0.47
1:G:202:MET:CE	1:G:357:HIS:CD2	2.97	0.47
1:G:210:ARG:NH1	1:G:395:HIS:CA	2.78	0.47
1:G:865:ALA:HA	1:G:1019:VAL:HG22	1.96	0.47
1:H:227:VAL:HG23	1:H:449:ASN:OD1	2.15	0.47
1:H:427:THR:CA	1:H:436:MET:HE1	2.05	0.47
1:H:895:VAL:HG12	1:H:896:ASN:N	2.29	0.47
1:I:173:LEU:O	1:I:174:SER:C	2.58	0.47
1:I:256:VAL:O	1:I:256:VAL:HG12	2.09	0.47
1:I:315:LEU:C	1:I:315:LEU:HD12	2.40	0.47
1:I:764:PHE:O	1:I:765:LEU:C	2.57	0.47
1:I:832:ASP:O	1:I:833:ALA:HB2	2.15	0.47
1:J:100:TYR:HB2	1:J:203:TRP:CE3	2.50	0.47
1:J:764:PHE:CE1	1:J:840:HIS:CE1	3.02	0.47
1:K:138:GLN:N	1:K:217:LYS:O	2.31	0.47
1:K:165:SER:C	1:K:166:ARG:HD2	2.40	0.47
1:K:289:VAL:HG22	1:K:291:LEU:HD11	1.96	0.47
1:L:476:LYS:HD2	1:L:476:LYS:HA	1.67	0.47
1:M:630:ARG:HD3	1:M:637:GLU:OE2	2.15	0.47
1:M:706:THR:O	1:M:708:TRP:N	2.48	0.47
1:M:946:TYR:HE2	1:M:982:THR:HG21	1.72	0.47
1:N:73:TRP:CH2	1:N:185:ALA:HB1	2.49	0.47
1:N:225:PHE:C	1:N:226:HIS:HD2	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:343:LEU:HD23	1:N:348:PRO:CA	2.44	0.47
1:N:594:ASP:OD1	1:N:594:ASP:N	2.44	0.47
1:N:719:GLN:N	3:N:1250:HOH:O	2.46	0.47
1:N:1004:SER:N	3:N:1274:HOH:O	2.22	0.47
1:O:765:LEU:CD2	1:O:864:MET:HE1	2.45	0.47
1:P:650:GLU:HB3	1:P:670:LEU:HB3	1.96	0.47
1:P:901:GLY:HA3	1:P:918:TRP:CD1	2.49	0.47
1:A:917:ARG:HH22	1:A:943:GLU:CD	2.23	0.47
1:B:103:VAL:HG12	1:B:104:THR:N	2.27	0.47
1:D:164:ASP:HA	1:D:439:ARG:HH12	1.80	0.47
1:D:210:ARG:HH12	1:D:395:HIS:N	2.10	0.47
1:D:237:ARG:HH11	1:D:237:ARG:CG	2.27	0.47
1:D:416:GLU:OE2	1:D:418:HIS:HB2	2.15	0.47
1:D:1005:ALA:O	1:D:1006:GLU:C	2.55	0.47
1:E:4:THR:HG21	1:H:12:GLN:CG	2.41	0.47
1:E:356:ARG:HG2	1:E:356:ARG:NH1	2.15	0.47
1:E:442:ARG:HD3	3:E:1252:HOH:O	2.15	0.47
1:E:465:GLY:N	1:E:468:HIS:ND1	2.41	0.47
1:F:197:LEU:HD22	1:F:415:ILE:HG23	1.96	0.47
1:F:227:VAL:HG13	1:F:240:LEU:CD1	2.44	0.47
1:F:433:LEU:N	1:F:434:PRO:CD	2.78	0.47
1:G:54:LEU:HB2	1:G:212:VAL:HG12	1.97	0.47
1:G:102:ASN:HA	1:G:201:ASP:OD1	2.15	0.47
1:G:804:ASN:O	1:G:805:ALA:C	2.55	0.47
1:H:278:ILE:N	1:H:278:ILE:HD12	2.29	0.47
1:H:387:VAL:HG22	1:H:388:ARG:N	2.29	0.47
1:H:549:PHE:O	1:H:551:LYS:N	2.47	0.47
1:H:904:GLU:HG3	1:H:906:TYR:HE1	1.80	0.47
1:I:246:MET:CG	1:I:274:PHE:CE2	2.98	0.47
1:I:510:GLN:NE2	3:I:1247:HOH:O	2.47	0.47
1:I:910:LEU:O	1:I:913:ALA:HB3	2.15	0.47
1:J:187:MET:HG2	1:J:187:MET:O	2.14	0.47
1:J:238:ALA:C	1:J:239:VAL:HG23	2.40	0.47
1:J:518:TRP:O	1:J:519:SER:C	2.57	0.47
1:J:892:ALA:HB3	1:J:946:TYR:CE1	2.50	0.47
1:K:262:GLN:NE2	1:K:299:LYS:CD	2.78	0.47
1:K:492:ASP:HB3	1:K:499:ILE:HG23	1.96	0.47
1:K:767:GLN:CG	1:K:768:MET:N	2.78	0.47
1:K:867:THR:O	1:K:867:THR:HG22	2.14	0.47
1:K:900:LEU:HA	1:K:914:CYS:O	2.14	0.47
1:L:103:VAL:O	1:L:199:ASP:OD2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:134:LEU:HD11	1:L:177:LEU:CB	2.44	0.47
1:L:352:ARG:CZ	1:L:626:PHE:CE1	2.97	0.47
1:L:440:VAL:O	1:L:444:VAL:HG23	2.15	0.47
1:L:814:GLY:CA	1:L:844:HIS:CD2	2.97	0.47
1:M:3:ILE:HG23	1:M:4:THR:N	2.30	0.47
1:M:282:ARG:HG3	1:P:423:MET:CG	2.45	0.47
1:M:475:ILE:O	1:M:479:ASP:N	2.32	0.47
1:M:540:HIS:CE1	1:M:998:SER:HB2	2.50	0.47
1:M:892:ALA:HB3	1:M:946:TYR:CE1	2.50	0.47
1:N:287:ASP:O	1:N:288:ARG:HG3	2.14	0.47
1:O:740:LEU:HD11	1:O:747:PHE:HB3	1.97	0.47
1:O:1018:LEU:HD23	1:O:1018:LEU:HA	1.70	0.47
1:P:6:SER:CB	1:P:9:VAL:HG23	2.44	0.47
1:P:37:ARG:HH21	1:P:218:PRO:HD3	1.79	0.47
1:P:99:ILE:HG22	1:P:100:TYR:N	2.30	0.47
1:P:159:VAL:HG11	1:P:173:LEU:HD21	1.96	0.47
1:P:308:LEU:HD23	1:P:308:LEU:HA	1.71	0.47
1:P:386:ALA:CA	1:P:407:LEU:HD22	2.42	0.47
1:P:844:HIS:O	1:P:845:GLN:C	2.58	0.47
1:P:908:ASP:O	1:P:909:ARG:HB2	2.14	0.47
1:A:14:ARG:NH1	1:A:16:TRP:CZ2	2.83	0.47
1:A:368:ASP:O	1:A:369:GLU:C	2.57	0.47
1:A:806:TRP:CZ3	1:A:809:ARG:NH2	2.83	0.47
1:B:360:HIS:CG	1:B:361:PRO:HD2	2.50	0.47
1:B:632:SER:O	1:B:634:GLN:N	2.48	0.47
1:B:743:SER:OG	1:B:744:GLU:N	2.47	0.47
1:B:927:THR:CG2	1:B:929:TYR:CE2	2.98	0.47
1:C:198:GLU:OE2	1:C:414:ASN:ND2	2.48	0.47
1:D:447:ASP:HA	3:D:1208:HOH:O	2.14	0.47
1:D:652:LEU:HD11	1:D:698:VAL:HB	1.97	0.47
1:D:951:TRP:H	1:D:951:TRP:HE3	1.61	0.47
1:E:84:VAL:HG13	1:E:93:HIS:CE1	2.50	0.47
1:E:114:VAL:CG2	1:E:191:TRP:HB3	2.44	0.47
1:E:164:ASP:CB	1:E:439:ARG:NH1	2.78	0.47
1:E:258:VAL:O	1:E:269:SER:HA	2.14	0.47
1:E:289:VAL:CG2	1:E:290:THR:N	2.78	0.47
1:E:587:ALA:HB1	1:E:591:ASP:HB2	1.96	0.47
1:E:590:GLY:C	1:E:592:PHE:H	2.23	0.47
1:F:579:ASP:O	1:F:581:ASN:N	2.48	0.47
1:F:608:PHE:C	1:F:610:ASP:H	2.23	0.47
1:G:382:ASN:CG	1:G:617:LEU:HD21	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:579:ASP:O	1:G:581:ASN:N	2.47	0.47
1:G:597:ASN:HD22	1:G:599:ARG:N	2.07	0.47
1:G:1018:LEU:HA	1:G:1018:LEU:HD23	1.18	0.47
1:H:33:PHE:HB3	1:H:326:GLU:OE2	2.15	0.47
1:H:173:LEU:HD23	1:H:173:LEU:HA	1.66	0.47
1:H:260:LEU:O	1:H:267:VAL:HB	2.15	0.47
1:H:301:TRP:HD1	1:H:307:ASN:O	1.98	0.47
1:H:815:HIS:HE2	1:H:876:THR:HG1	1.60	0.47
1:I:109:VAL:HG22	1:I:196:TYR:CE2	2.50	0.47
1:I:240:LEU:HD12	1:I:241:GLU:H	1.79	0.47
1:I:321:THR:O	1:I:321:THR:HG22	2.14	0.47
1:J:218:PRO:O	1:J:221:GLN:HB3	2.15	0.47
1:K:618:THR:HG22	1:K:912:ALA:HB1	1.96	0.47
1:K:625:GLN:HB2	1:K:716:ALA:HB2	1.97	0.47
1:K:663:LEU:HD12	1:K:688:PRO:HG3	1.96	0.47
1:K:821:ALA:O	1:K:840:HIS:HA	2.15	0.47
1:K:834:VAL:HG12	1:K:835:LEU:N	2.29	0.47
1:K:935:ASN:O	1:K:937:LEU:N	2.48	0.47
1:L:36:TRP:CB	1:L:42:ALA:HB2	2.44	0.47
1:L:60:PHE:HE1	1:L:123:TYR:CE1	2.33	0.47
1:L:390:SER:CB	1:L:391:HIS:CE1	2.97	0.47
1:M:11:LEU:O	1:M:12:GLN:C	2.57	0.47
1:M:84:VAL:CG1	1:M:85:VAL:N	2.78	0.47
1:M:448:ARG:HA	1:M:482:ARG:HH12	1.80	0.47
1:M:902:PRO:O	1:M:938:ARG:NH1	2.48	0.47
1:N:377:LEU:HD23	1:N:708:TRP:CA	2.45	0.47
1:N:751:LEU:HD21	1:N:860:GLY:O	2.15	0.47
1:O:209:PHE:H	1:O:209:PHE:HD1	1.62	0.47
1:O:844:HIS:CE1	1:O:845:GLN:HG3	2.49	0.47
1:P:257:THR:OG1	1:P:316:HIS:HE1	1.98	0.47
1:P:376:ILE:CD1	1:P:398:TRP:CZ3	2.98	0.47
1:P:625:GLN:CB	1:P:716:ALA:HB2	2.45	0.47
1:P:786:ARG:HH11	1:P:990:HIS:HE1	1.62	0.47
1:A:279:ILE:HD11	1:D:422:PRO:CG	2.44	0.46
1:A:356:ARG:HD3	1:A:379:MET:HE1	1.97	0.46
1:B:5:ASP:CG	1:B:158:TRP:H	2.23	0.46
1:B:21:VAL:CG1	1:B:24:LEU:HD11	2.45	0.46
1:B:246:MET:HG2	1:B:274:PHE:CE1	2.50	0.46
1:C:43:ARG:HD2	1:C:261:TRP:CD2	2.50	0.46
1:C:740:LEU:HD12	1:C:749:ILE:CD1	2.45	0.46
1:D:506:VAL:HG23	3:D:1276:HOH:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:127:PHE:HE1	1:E:184:LEU:HG	1.79	0.46
1:E:422:PRO:HB3	1:H:279:ILE:HD13	1.96	0.46
1:F:91:GLN:NE2	1:F:190:ARG:CZ	2.78	0.46
1:F:147:ASN:HB2	1:F:209:PHE:HE1	1.80	0.46
1:F:166:ARG:HA	1:F:166:ARG:HD2	1.62	0.46
1:F:210:ARG:NH1	1:F:395:HIS:CA	2.78	0.46
1:F:767:GLN:NE2	1:F:774:LYS:HG2	2.30	0.46
1:G:433:LEU:O	1:G:433:LEU:HD12	2.15	0.46
1:G:436:MET:HE3	1:G:467:ASN:ND2	2.26	0.46
1:H:163:GLN:OE1	1:H:193:ASP:OD2	2.33	0.46
1:H:929:TYR:O	1:H:930:VAL:C	2.59	0.46
1:I:84:VAL:CG1	1:I:85:VAL:N	2.78	0.46
1:I:158:TRP:CZ2	1:I:160:GLY:HA2	2.50	0.46
1:J:55:ASN:ND2	1:J:211:ASP:HB3	2.29	0.46
1:J:425:ARG:HH22	1:K:287:ASP:CG	2.23	0.46
1:K:391:HIS:CD2	1:K:460:ASN:HD22	2.32	0.46
1:K:436:MET:O	1:K:439:ARG:N	2.48	0.46
1:L:36:TRP:CD1	1:L:42:ALA:N	2.83	0.46
1:L:955:PHE:HB2	1:L:987:ASP:O	2.15	0.46
1:M:80:GLU:HG3	1:M:80:GLU:H	1.28	0.46
1:M:333:ARG:NH1	1:M:453:VAL:O	2.47	0.46
1:M:367:MET:HE1	1:M:371:THR:CG2	2.45	0.46
1:M:432:TRP:C	1:M:434:PRO:HD2	2.40	0.46
1:N:257:THR:HB	1:N:314:GLU:HG3	1.97	0.46
1:O:60:PHE:CB	1:O:84:VAL:HG21	2.42	0.46
1:O:77:ASP:C	1:O:78:LEU:HD23	2.40	0.46
1:P:260:LEU:HB2	1:P:268:ALA:HB3	1.96	0.46
1:P:567:VAL:O	1:P:569:ASP:HA	2.14	0.46
1:A:826:THR:O	1:A:836:ILE:HA	2.14	0.46
1:B:568:TRP:CD2	1:B:569:ASP:HB3	2.50	0.46
1:C:249:GLU:CG	1:C:251:ARG:HH22	2.28	0.46
1:C:581:ASN:O	1:C:582:GLY:C	2.57	0.46
1:C:685:LEU:HD22	1:C:686:PRO:CD	2.41	0.46
1:C:824:GLN:O	1:C:838:THR:HA	2.15	0.46
1:C:830:LEU:N	1:C:830:LEU:CD1	2.78	0.46
1:D:176:PHE:N	1:D:176:PHE:CD1	2.82	0.46
1:E:30:HIS:ND1	1:E:33:PHE:CD2	2.83	0.46
1:E:653:HIS:CD2	1:E:667:GLU:HG2	2.49	0.46
1:E:767:GLN:CG	1:E:768:MET:N	2.78	0.46
1:F:134:LEU:CD1	1:F:179:ALA:HA	2.46	0.46
1:F:737:ILE:HB	1:F:738:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:42:ALA:O	1:G:43:ARG:C	2.54	0.46
1:G:78:LEU:HB3	1:G:79:PRO:CD	2.36	0.46
1:G:147:ASN:HA	1:G:148:SER:HA	1.46	0.46
1:G:167:LEU:HB3	1:G:168:PRO:CD	2.44	0.46
1:G:382:ASN:OD1	1:G:617:LEU:HG	2.14	0.46
1:G:444:VAL:O	1:G:448:ARG:HG2	2.15	0.46
1:G:460:ASN:ND2	1:G:461:GLU:CG	2.79	0.46
1:G:879:PRO:O	1:G:1009:LEU:HD12	2.15	0.46
1:H:454:ILE:O	1:H:455:ILE:HG13	2.15	0.46
1:H:966:GLN:O	1:H:967:LEU:C	2.57	0.46
1:I:80:GLU:H	1:I:80:GLU:HG3	1.07	0.46
1:I:559:TYR:N	1:I:559:TYR:CD1	2.83	0.46
1:I:621:LYS:HE2	1:I:717:TRP:HZ3	1.80	0.46
1:I:753:ASN:OD1	1:I:753:ASN:N	2.32	0.46
1:J:18:ASN:N	1:J:193:ASP:OD2	2.42	0.46
1:J:735:HIS:O	1:J:736:ALA:HB2	2.16	0.46
1:L:344:LEU:O	1:L:345:ASN:C	2.56	0.46
1:M:7:LEU:N	1:M:71:GLU:OE2	2.49	0.46
1:M:165:SER:O	1:M:166:ARG:HD2	2.16	0.46
1:M:282:ARG:HD3	1:P:418:HIS:O	2.15	0.46
1:M:333:ARG:HD3	1:M:451:PRO:CB	2.46	0.46
1:M:413:ALA:O	1:M:415:ILE:N	2.48	0.46
1:M:426:LEU:N	1:M:426:LEU:HD23	2.29	0.46
1:M:456:TRP:NE1	1:M:482:ARG:HB2	2.30	0.46
1:M:730:LEU:HD21	1:N:823:LEU:HB3	1.97	0.46
1:N:210:ARG:HH12	1:N:395:HIS:N	2.14	0.46
1:N:1020:TRP:CD1	1:N:1021:CYS:N	2.82	0.46
1:O:63:PHE:O	1:O:119:PRO:HA	2.15	0.46
1:O:258:VAL:HA	1:O:312:VAL:O	2.15	0.46
1:O:788:PRO:O	1:O:933:SER:HB2	2.16	0.46
1:P:30:HIS:HB2	1:P:31:PRO:CD	2.44	0.46
1:P:141:ILE:HD11	1:P:212:VAL:HG12	1.97	0.46
1:P:261:TRP:CZ3	1:P:266:GLN:CA	2.98	0.46
1:P:430:PRO:O	1:P:434:PRO:HD3	2.15	0.46
1:P:568:TRP:HA	1:P:569:ASP:HA	1.60	0.46
1:P:569:ASP:HB2	3:P:1278:HOH:O	2.15	0.46
1:A:79:PRO:CD	1:A:80:GLU:H	2.28	0.46
1:A:129:VAL:HG23	1:A:182:ASN:ND2	2.30	0.46
1:A:249:GLU:OE1	1:A:251:ARG:NH1	2.49	0.46
1:A:534:ILE:HD11	1:A:563:GLN:HB2	1.97	0.46
1:B:454:ILE:HG13	1:B:455:ILE:HG13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:612:THR:HB	1:B:613:PRO:HD2	1.97	0.46
1:B:742:THR:CG2	1:B:743:SER:N	2.78	0.46
1:C:37:ARG:NH1	1:C:37:ARG:CG	2.78	0.46
1:C:767:GLN:CG	1:C:768:MET:N	2.79	0.46
1:E:60:PHE:HB3	1:E:84:VAL:CG2	2.45	0.46
1:E:105:TYR:HA	1:E:106:PRO:HD3	1.80	0.46
1:E:147:ASN:HB2	1:E:209:PHE:CE2	2.34	0.46
1:E:501:PRO:HB3	1:E:523:TRP:CZ3	2.49	0.46
1:E:768:MET:SD	1:E:1022:GLN:NE2	2.89	0.46
1:E:928:PRO:O	1:E:973:ARG:HD2	2.14	0.46
1:F:317:THR:OG1	1:F:319:ASP:OD1	2.29	0.46
1:F:424:ASN:HB3	1:G:285:TYR:OH	2.15	0.46
1:G:762:SER:OG	1:G:763:GLY:N	2.48	0.46
1:G:906:TYR:N	1:G:906:TYR:CD1	2.82	0.46
1:G:987:ASP:OD2	1:G:990:HIS:HD2	1.99	0.46
1:H:141:ILE:HG13	1:H:213:SER:O	2.15	0.46
1:H:610:ASP:O	1:H:611:ARG:HB2	2.16	0.46
1:H:769:TRP:HA	1:H:773:LYS:O	2.15	0.46
1:H:782:ASP:HB2	1:H:842:TRP:CZ2	2.50	0.46
1:J:579:ASP:OD1	1:J:583:ASN:N	2.47	0.46
1:J:933:SER:O	1:J:934:GLU:C	2.57	0.46
1:K:894:ARG:HH22	1:K:921:PRO:HD3	1.79	0.46
1:L:350:LEU:HD12	1:L:563:GLN:C	2.39	0.46
1:M:11:LEU:N	1:M:11:LEU:CD2	2.79	0.46
1:M:190:ARG:HG2	1:M:206:SER:HB3	1.97	0.46
1:M:352:ARG:CZ	1:M:626:PHE:CE1	2.98	0.46
1:M:456:TRP:HB2	1:M:484:VAL:HG22	1.97	0.46
1:M:464:HIS:HB2	1:M:489:GLY:HA3	1.97	0.46
1:M:908:ASP:O	1:M:909:ARG:HB3	2.16	0.46
1:N:123:TYR:O	1:N:124:SER:HB3	2.14	0.46
1:N:310:ARG:CG	1:N:311:ALA:N	2.78	0.46
1:N:857:ARG:HG2	1:N:857:ARG:NH1	2.27	0.46
1:O:339:ASN:O	1:P:527:PRO:HB3	2.15	0.46
1:O:360:HIS:O	1:O:364:GLY:N	2.41	0.46
1:O:524:LEU:HD11	1:O:562:LEU:HD23	1.97	0.46
1:O:842:TRP:CZ3	1:O:852:SER:HB2	2.49	0.46
1:P:91:GLN:HB3	1:P:98:PRO:CD	2.39	0.46
1:P:121:GLY:O	1:P:123:TYR:HD1	1.98	0.46
1:P:523:TRP:HB3	1:P:533:LEU:HD23	1.96	0.46
1:A:682:LEU:HD23	1:A:682:LEU:HA	1.70	0.46
1:A:740:LEU:HD12	1:A:741:THR:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:746:ASP:HA	1:A:760:ARG:HG3	1.98	0.46
1:A:996:ASP:HB2	1:A:1002:SER:HB2	1.97	0.46
1:B:814:GLY:O	1:B:815:HIS:C	2.55	0.46
1:C:223:SER:O	1:C:224:ASP:HB2	2.14	0.46
1:C:473:ARG:HA	1:C:473:ARG:HD3	1.30	0.46
1:C:770:ILE:CD1	1:C:1022:GLN:HG2	2.45	0.46
1:C:892:ALA:HB3	1:C:946:TYR:CE1	2.51	0.46
1:D:750:GLU:HG3	1:D:755:ARG:CG	2.44	0.46
1:E:69:VAL:CG1	1:E:70:PRO:HD2	2.38	0.46
1:E:91:GLN:HE22	1:E:206:SER:N	2.13	0.46
1:E:129:VAL:CG2	1:E:182:ASN:ND2	2.78	0.46
1:F:91:GLN:C	1:F:93:HIS:H	2.22	0.46
1:F:316:HIS:HB2	1:F:321:THR:O	2.15	0.46
1:F:433:LEU:N	1:F:434:PRO:HD2	2.31	0.46
1:G:668:VAL:CG1	1:G:669:PRO:HD2	2.45	0.46
1:G:868:VAL:HB	1:G:1016:TYR:CE1	2.51	0.46
1:G:961:ARG:NH2	1:G:979:GLU:O	2.42	0.46
1:H:767:GLN:HG3	1:H:768:MET:N	2.29	0.46
1:H:936:GLY:C	1:H:938:ARG:HH21	2.22	0.46
1:I:652:LEU:HD11	1:I:698:VAL:HB	1.97	0.46
1:I:757:GLN:O	1:I:765:LEU:HD12	2.15	0.46
1:I:903:GLN:O	1:I:904:GLU:C	2.58	0.46
1:I:905:ASN:HB2	1:I:910:LEU:HB3	1.97	0.46
1:J:92:MET:HE1	1:J:575:LEU:HD22	1.96	0.46
1:K:51:LEU:HD12	1:K:51:LEU:C	2.32	0.46
1:K:307:ASN:C	1:K:308:LEU:HD23	2.40	0.46
1:K:701:VAL:HG22	1:K:714:ILE:CD1	2.45	0.46
1:K:870:VAL:CG1	1:K:871:GLU:N	2.78	0.46
1:L:91:GLN:HG3	1:L:96:ASP:OD1	2.16	0.46
1:L:202:MET:HE3	1:L:357:HIS:HD2	1.74	0.46
1:L:403:ASP:CG	1:L:451:PRO:HD2	2.41	0.46
1:L:446:ARG:NE	1:L:447:ASP:OD1	2.40	0.46
1:L:503:TYR:CZ	1:L:537:GLU:HB3	2.50	0.46
1:L:670:LEU:HA	1:L:670:LEU:HD23	1.64	0.46
1:L:897:TRP:CE2	1:L:918:TRP:HB2	2.51	0.46
1:M:518:TRP:HD1	1:M:523:TRP:CE2	2.34	0.46
1:M:943:GLU:OE2	1:M:945:ASN:ND2	2.47	0.46
1:N:513:PRO:O	1:N:514:ALA:HB3	2.15	0.46
1:N:902:PRO:HD3	1:N:918:TRP:CZ2	2.49	0.46
1:O:254:LEU:O	1:O:255:ARG:HD2	2.16	0.46
1:O:610:ASP:OD1	1:O:612:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:786:ARG:HA	1:O:881:ARG:HH21	1.79	0.46
1:P:382:ASN:N	1:P:382:ASN:ND2	2.63	0.46
1:P:684:GLU:HG2	1:P:685:LEU:N	2.29	0.46
1:P:1004:SER:O	1:P:1005:ALA:C	2.58	0.46
1:A:66:PRO:HG2	1:A:67:GLU:OE2	2.14	0.46
1:A:377:LEU:HD22	1:A:708:TRP:HA	1.97	0.46
1:D:823:LEU:HB2	1:D:839:ALA:O	2.15	0.46
1:D:897:TRP:CE2	1:D:918:TRP:HB2	2.49	0.46
1:D:920:LEU:CB	1:D:921:PRO:HD2	2.43	0.46
1:E:23:GLN:O	1:E:24:LEU:HD13	2.16	0.46
1:E:315:LEU:O	1:E:315:LEU:HG	2.15	0.46
1:E:856:TYR:CD2	1:E:864:MET:CE	2.99	0.46
1:E:910:LEU:C	1:E:910:LEU:HD12	2.41	0.46
1:F:7:LEU:CD1	1:F:74:LEU:HD21	2.45	0.46
1:F:222:ILE:HD13	1:F:313:VAL:HG12	1.98	0.46
1:F:416:GLU:HA	1:F:460:ASN:O	2.16	0.46
1:F:502:MET:HE2	1:F:537:GLU:CD	2.40	0.46
1:F:766:SER:HA	1:F:779:PRO:HB3	1.96	0.46
1:F:921:PRO:O	1:F:922:LEU:C	2.58	0.46
1:G:36:TRP:CD1	1:G:41:GLU:HB3	2.51	0.46
1:G:92:MET:HE1	1:G:575:LEU:HD22	1.98	0.46
1:H:123:TYR:O	1:H:124:SER:HB3	2.16	0.46
1:H:154:CYS:N	1:H:157:ARG:O	2.31	0.46
1:H:614:HIS:HB3	3:H:1287:HOH:O	2.14	0.46
1:H:767:GLN:OE1	1:H:768:MET:O	2.34	0.46
1:H:881:ARG:HD3	1:H:987:ASP:OD1	2.15	0.46
1:I:91:GLN:HE21	1:I:190:ARG:NH2	2.14	0.46
1:I:271:THR:O	1:I:272:ALA:HB2	2.16	0.46
1:I:323:ILE:N	1:I:323:ILE:HD12	2.29	0.46
1:J:513:PRO:O	1:J:514:ALA:HB3	2.16	0.46
1:J:854:LYS:HA	1:J:867:THR:O	2.15	0.46
1:K:36:TRP:CG	1:K:42:ALA:HB2	2.51	0.46
1:K:271:THR:O	1:K:272:ALA:HB2	2.14	0.46
1:L:611:ARG:N	1:L:611:ARG:HD2	2.30	0.46
1:L:784:PHE:CD2	1:L:850:PHE:CD2	3.04	0.46
1:L:818:ALA:HB1	1:L:843:GLN:O	2.16	0.46
1:L:1022:GLN:O	1:L:1023:LYS:HG3	2.16	0.46
1:M:315:LEU:HD12	1:M:315:LEU:C	2.40	0.46
1:M:395:HIS:CE1	1:M:397:LEU:HB2	2.50	0.46
1:M:492:ASP:O	1:M:531:ARG:NH2	2.40	0.46
1:M:553:TRP:HB3	1:M:557:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:815:HIS:HE1	1:M:877:PRO:O	1.98	0.46
1:M:856:TYR:CD2	1:M:864:MET:CE	2.98	0.46
1:M:937:LEU:HD11	1:M:956:GLN:HB2	1.97	0.46
1:M:1022:GLN:HB3	1:M:1023:LYS:H	1.46	0.46
1:N:54:LEU:O	1:N:58:TRP:NE1	2.38	0.46
1:N:546:LEU:HD23	1:N:549:PHE:CG	2.51	0.46
1:O:359:HIS:CD2	1:O:573:GLN:HA	2.51	0.46
1:O:658:LEU:O	1:O:661:LYS:HD3	2.14	0.46
1:O:660:GLY:O	1:O:662:PRO:HD3	2.16	0.46
1:O:694:LEU:HD12	1:O:694:LEU:HA	1.16	0.46
1:O:854:LYS:NZ	3:O:1216:HOH:O	2.43	0.46
1:P:110:ASN:O	1:P:196:TYR:OH	2.33	0.46
1:P:229:THR:HG21	1:P:332:PHE:CD2	2.51	0.46
1:P:397:LEU:HA	1:P:397:LEU:HD13	1.58	0.46
1:P:476:LYS:HD2	1:P:476:LYS:HA	1.64	0.46
1:P:787:ALA:HB3	1:P:934:GLU:H	1.79	0.46
1:P:822:LEU:HD11	1:P:824:GLN:H	1.81	0.46
1:A:40:GLU:CG	1:A:43:ARG:NH1	2.79	0.46
1:A:73:TRP:O	1:A:183:ARG:NH2	2.48	0.46
1:A:103:VAL:HG13	1:A:418:HIS:CD2	2.51	0.46
1:A:283:GLY:O	1:D:422:PRO:HB3	2.16	0.46
1:A:433:LEU:N	1:A:434:PRO:CD	2.78	0.46
1:A:821:ALA:O	1:A:840:HIS:HA	2.15	0.46
1:B:473:ARG:HD2	1:C:469:ASP:HB3	1.97	0.46
1:B:694:LEU:HA	1:B:694:LEU:HD12	1.63	0.46
1:C:5:ASP:OD2	1:C:157:ARG:HA	2.16	0.46
1:C:30:HIS:ND1	1:C:31:PRO:O	2.37	0.46
1:C:409:VAL:CG1	1:C:410:VAL:N	2.77	0.46
1:D:655:MET:HE2	1:D:662:PRO:HB3	1.98	0.46
1:D:951:TRP:N	1:D:951:TRP:CE3	2.84	0.46
1:E:258:VAL:HG12	1:E:258:VAL:O	2.15	0.46
1:E:289:VAL:CG2	1:E:291:LEU:HD11	2.45	0.46
1:E:352:ARG:CZ	1:E:626:PHE:CE1	2.98	0.46
1:E:531:ARG:HB3	1:E:532:PRO:HD2	1.98	0.46
1:E:995:GLY:N	1:E:1002:SER:OG	2.35	0.46
1:F:99:ILE:CG2	1:F:100:TYR:N	2.79	0.46
1:F:272:ALA:HB1	1:F:273:PRO:CD	2.45	0.46
1:F:292:ARG:C	1:F:293:LEU:HD23	2.41	0.46
1:F:352:ARG:H	1:F:385:ASN:HB2	1.81	0.46
1:F:377:LEU:HD22	1:F:708:TRP:CA	2.32	0.46
1:F:420:MET:HE3	1:F:420:MET:HB3	1.65	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:474:TRP:O	1:F:477:SER:HB2	2.16	0.46
1:F:843:GLN:HG2	1:F:848:THR:CA	2.45	0.46
1:G:79:PRO:CG	1:G:80:GLU:H	2.28	0.46
1:G:1003:VAL:HA	3:G:1274:HOH:O	2.15	0.46
1:H:900:LEU:HB2	1:H:939:CYS:O	2.16	0.46
1:H:995:GLY:O	1:H:996:ASP:C	2.58	0.46
1:I:149:ALA:O	1:I:150:PHE:HB3	2.16	0.46
1:I:352:ARG:NE	1:I:626:PHE:CE1	2.84	0.46
1:I:571:VAL:HG11	1:I:611:ARG:CZ	2.45	0.46
1:I:571:VAL:HG11	1:I:611:ARG:NH1	2.31	0.46
1:I:583:ASN:HA	1:I:584:PRO:HD3	1.89	0.46
1:I:807:VAL:CG1	1:I:808:GLU:N	2.78	0.46
1:J:370:GLN:O	1:J:371:THR:C	2.58	0.46
1:J:420:MET:CA	1:J:420:MET:HE3	2.44	0.46
1:J:594:ASP:O	1:J:597:ASN:HB3	2.16	0.46
1:K:368:ASP:OD1	1:K:370:GLN:HB2	2.15	0.46
1:K:390:SER:CA	1:K:391:HIS:ND1	2.78	0.46
1:K:683:PRO:O	1:K:684:GLU:C	2.59	0.46
1:L:654:TRP:O	1:L:655:MET:HB2	2.16	0.46
1:M:523:TRP:O	1:M:524:LEU:C	2.58	0.46
1:M:674:PRO:O	1:M:675:GLN:HB2	2.15	0.46
1:M:706:THR:O	1:M:707:ALA:C	2.58	0.46
1:M:933:SER:O	1:M:935:ASN:ND2	2.46	0.46
1:N:253:TYR:CD1	1:N:317:THR:HG22	2.50	0.46
1:N:358:GLU:HB3	1:N:367:MET:SD	2.55	0.46
1:N:576:ILE:CG2	1:N:577:LYS:N	2.79	0.46
1:N:759:ASN:OD1	1:N:761:GLN:HG3	2.15	0.46
1:O:290:THR:O	1:O:290:THR:HG22	2.16	0.46
1:O:352:ARG:HG2	1:O:553:TRP:CH2	2.51	0.46
1:O:367:MET:HE3	1:O:367:MET:HB3	1.58	0.46
1:O:515:VAL:N	1:O:516:PRO:HD3	2.30	0.46
1:O:538:TYR:O	1:O:539:ALA:HB3	2.15	0.46
1:P:39:SER:OG	1:P:40:GLU:N	2.48	0.46
1:P:100:TYR:CB	1:P:203:TRP:CZ3	2.97	0.46
1:P:140:ARG:HA	1:P:171:PHE:O	2.16	0.46
1:P:490:GLY:O	1:P:491:ALA:HB3	2.15	0.46
1:A:608:PHE:O	1:A:609:ALA:C	2.58	0.46
1:B:316:HIS:HA	1:B:323:ILE:CD1	2.42	0.46
1:B:479:ASP:OD1	1:B:481:SER:OG	2.29	0.46
1:B:718:GLN:CG	1:B:720:TRP:CZ2	2.99	0.46
1:B:749:ILE:HD12	1:B:749:ILE:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:719:GLN:N	3:C:1247:HOH:O	2.44	0.46
1:C:916:ASP:OD1	1:C:917:ARG:N	2.40	0.46
1:C:945:ASN:OD1	1:C:950:GLN:NE2	2.46	0.46
1:D:23:GLN:HB3	1:D:26:ARG:NH2	2.31	0.46
1:D:353:GLY:O	1:D:566:PHE:HA	2.15	0.46
1:D:807:VAL:CG1	1:D:808:GLU:N	2.78	0.46
1:D:870:VAL:CG1	1:D:871:GLU:N	2.79	0.46
1:D:876:THR:O	1:D:877:PRO:C	2.56	0.46
1:E:24:LEU:HB2	1:E:161:TYR:HB3	1.98	0.46
1:E:115:PRO:CG	1:E:191:TRP:CD1	2.98	0.46
1:E:380:LYS:HB3	1:E:708:TRP:CE3	2.50	0.46
1:E:390:SER:CA	1:E:391:HIS:ND1	2.79	0.46
1:E:434:PRO:HD2	3:E:1210:HOH:O	2.16	0.46
1:E:472:TYR:HD1	1:E:484:VAL:HG11	1.81	0.46
1:E:572:ASP:HB3	1:E:603:MET:HG2	1.98	0.46
1:E:599:ARG:HH22	1:E:795:VAL:HA	1.80	0.46
1:F:786:ARG:NH2	1:F:991:MET:CE	2.79	0.46
1:F:906:TYR:N	1:F:906:TYR:CD1	2.81	0.46
1:G:152:LEU:HD23	1:G:159:VAL:HB	1.97	0.46
1:G:612:THR:HA	1:G:613:PRO:HD3	1.52	0.46
1:H:11:LEU:HD23	1:H:11:LEU:N	2.31	0.46
1:H:27:LEU:CD1	1:H:140:ARG:NH1	2.79	0.46
1:H:367:MET:HE2	1:H:372:MET:CG	2.46	0.46
1:H:418:HIS:O	1:H:418:HIS:HD2	1.99	0.46
1:H:742:THR:HG22	1:H:743:SER:O	2.16	0.46
1:H:786:ARG:O	1:H:816:TYR:OH	2.29	0.46
1:I:147:ASN:HB2	1:I:209:PHE:CE2	2.47	0.46
1:I:433:LEU:O	1:I:433:LEU:HD12	2.15	0.46
1:I:897:TRP:CH2	1:I:918:TRP:CB	2.99	0.46
1:I:948:PRO:O	1:I:1023:LYS:HE3	2.15	0.46
1:I:966:GLN:NE2	1:I:977:HIS:O	2.43	0.46
1:J:422:PRO:HG2	1:K:279:ILE:HD11	1.98	0.46
1:K:403:ASP:OD2	1:K:450:HIS:ND1	2.43	0.46
1:K:436:MET:CE	1:K:467:ASN:HD22	2.27	0.46
1:K:608:PHE:O	1:K:609:ALA:C	2.58	0.46
1:K:857:ARG:HH11	1:K:857:ARG:CG	2.19	0.46
1:L:66:PRO:HA	1:L:120:THR:HG21	1.97	0.46
1:L:127:PHE:CE1	1:L:184:LEU:CG	2.99	0.46
1:L:222:ILE:HD11	1:L:315:LEU:HB2	1.97	0.46
1:M:126:THR:HA	1:M:183:ARG:HA	1.97	0.46
1:M:202:MET:CB	1:M:573:GLN:HE22	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:354:VAL:CG2	1:M:355:ASN:N	2.78	0.46
1:M:1012:GLY:O	1:M:1013:ARG:HG3	2.15	0.46
1:N:210:ARG:NH1	1:N:395:HIS:CA	2.79	0.46
1:N:249:GLU:HG2	1:N:251:ARG:HH21	1.79	0.46
1:N:315:LEU:O	1:N:323:ILE:HB	2.16	0.46
1:N:775:GLN:N	1:N:775:GLN:NE2	2.64	0.46
1:O:424:ASN:O	1:O:425:ARG:C	2.58	0.46
1:O:595:THR:HG23	1:O:596:PRO:CA	2.44	0.46
1:O:740:LEU:HD12	1:O:749:ILE:HD12	1.96	0.46
1:O:897:TRP:CZ2	1:O:918:TRP:HB2	2.51	0.46
1:O:959:ILE:HG23	1:O:959:ILE:O	2.15	0.46
1:P:203:TRP:CZ2	1:P:575:LEU:HD11	2.51	0.46
1:P:433:LEU:N	1:P:434:PRO:CD	2.78	0.46
1:P:1013:ARG:HH11	1:P:1013:ARG:CG	2.24	0.46
1:A:127:PHE:CD1	1:A:127:PHE:N	2.84	0.46
1:A:229:THR:HG21	1:A:332:PHE:CD1	2.51	0.46
1:A:433:LEU:HB3	1:A:434:PRO:CD	2.44	0.46
1:A:625:GLN:HB2	1:A:716:ALA:HB2	1.98	0.46
1:A:782:ASP:HA	1:A:884:LEU:HD23	1.98	0.46
1:A:796:SER:OG	1:A:802:ASP:N	2.46	0.46
1:A:888:LEU:O	1:A:981:GLY:HA3	2.15	0.46
1:B:237:ARG:CD	1:B:296:GLU:HG2	2.45	0.46
1:B:369:GLU:O	1:B:373:VAL:HG23	2.16	0.46
1:B:578:TYR:HA	1:B:583:ASN:O	2.14	0.46
1:B:935:ASN:N	1:B:935:ASN:HD22	2.13	0.46
1:C:210:ARG:NH1	1:C:395:HIS:CA	2.79	0.46
1:D:421:VAL:HA	1:D:422:PRO:HA	1.81	0.46
1:D:552:TYR:O	1:D:554:GLN:N	2.48	0.46
1:D:595:THR:HG23	1:D:596:PRO:HA	1.97	0.46
1:D:742:THR:CG2	1:D:743:SER:N	2.79	0.46
1:E:85:VAL:HG13	1:E:86:VAL:N	2.31	0.46
1:E:134:LEU:N	1:E:134:LEU:CD2	2.79	0.46
1:F:413:ALA:HB2	1:F:443:MET:CE	2.46	0.46
1:F:758:PHE:HZ	1:F:864:MET:HE1	1.80	0.46
1:F:927:THR:CG2	1:F:929:TYR:CE2	2.98	0.46
1:F:930:VAL:HA	1:F:973:ARG:HD3	1.98	0.46
1:G:164:ASP:N	3:G:1240:HOH:O	2.28	0.46
1:G:246:MET:CG	1:G:274:PHE:CE2	2.99	0.46
1:G:509:ASP:C	1:G:511:PRO:HD3	2.41	0.46
1:G:658:LEU:HD12	1:G:659:ASP:N	2.31	0.46
1:H:645:ARG:HH12	1:H:648:ASP:H	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:930:VAL:HA	1:H:973:ARG:HD3	1.96	0.46
1:I:570:TRP:O	1:I:607:VAL:HG22	2.16	0.46
1:J:24:LEU:HD21	1:K:13:ARG:NH1	2.31	0.46
1:J:202:MET:O	1:J:204:ARG:HD3	2.16	0.46
1:J:642:TYR:O	1:J:674:PRO:HB3	2.16	0.46
1:J:768:MET:CG	1:J:769:TRP:N	2.78	0.46
1:J:796:SER:HG	1:J:802:ASP:H	1.61	0.46
1:K:883:GLY:HA3	1:K:987:ASP:HA	1.98	0.46
1:K:972:HIS:CB	1:K:974:HIS:CD2	2.98	0.46
1:L:285:TYR:HB3	1:L:288:ARG:HG3	1.97	0.46
1:L:322:LEU:HD23	1:L:324:GLU:N	2.31	0.46
1:L:390:SER:CB	1:L:391:HIS:ND1	2.79	0.46
1:L:856:TYR:HD2	1:L:864:MET:CE	2.22	0.46
1:L:878:HIS:CD2	1:L:1010:SER:CB	2.99	0.46
1:M:143:PHE:CD2	1:M:212:VAL:CG2	2.98	0.46
1:M:189:LEU:CD2	1:M:189:LEU:N	2.79	0.46
1:M:223:SER:O	1:M:224:ASP:HB2	2.16	0.46
1:M:259:SER:HA	1:M:269:SER:HA	1.96	0.46
1:M:433:LEU:N	1:M:434:PRO:CD	2.78	0.46
1:M:608:PHE:HB2	1:M:612:THR:OG1	2.15	0.46
1:N:129:VAL:HG23	1:N:182:ASN:HD22	1.79	0.46
1:N:908:ASP:N	1:N:908:ASP:OD1	2.46	0.46
1:O:368:ASP:O	1:O:369:GLU:C	2.59	0.46
1:P:115:PRO:CG	1:P:191:TRP:CD1	2.98	0.46
1:P:322:LEU:CD2	1:P:324:GLU:N	2.79	0.46
1:P:347:LYS:NZ	1:P:643:LEU:O	2.44	0.46
1:P:658:LEU:HD22	1:P:688:PRO:HG2	1.97	0.46
1:P:849:LEU:CB	1:P:850:PHE:CE2	2.99	0.46
1:P:994:GLY:N	1:P:1003:VAL:HG22	2.31	0.46
1:A:340:GLY:O	1:A:532:PRO:HB3	2.16	0.46
1:A:867:THR:O	1:A:867:THR:HG22	2.15	0.46
1:A:928:PRO:O	1:A:973:ARG:NH1	2.49	0.46
1:B:43:ARG:HD2	1:B:261:TRP:CE2	2.51	0.46
1:B:210:ARG:NH1	1:B:395:HIS:CA	2.79	0.46
1:B:232:ASN:ND2	1:B:237:ARG:CG	2.79	0.46
1:B:738:PRO:N	1:B:751:LEU:CD1	2.79	0.46
1:B:806:TRP:O	1:B:807:VAL:C	2.58	0.46
1:C:433:LEU:N	1:C:434:PRO:CD	2.79	0.46
1:C:583:ASN:HA	1:C:584:PRO:HD3	1.76	0.46
1:C:662:PRO:C	1:C:663:LEU:HD23	2.41	0.46
1:D:183:ARG:HH11	1:D:183:ARG:HD3	1.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:745:MET:O	1:D:746:ASP:HB3	2.16	0.46
1:D:766:SER:HA	1:D:779:PRO:HB3	1.98	0.46
1:D:906:TYR:N	1:D:906:TYR:CD1	2.83	0.46
1:E:23:GLN:HB2	1:E:26:ARG:HE	1.80	0.46
1:E:73:TRP:CE2	1:E:122:CYS:HB3	2.51	0.46
1:E:246:MET:HG2	1:E:274:PHE:CZ	2.51	0.46
1:E:433:LEU:N	1:E:434:PRO:CD	2.78	0.46
1:E:471:LEU:O	1:E:475:ILE:HG13	2.16	0.46
1:E:547:GLY:HA2	1:E:908:ASP:O	2.15	0.46
1:F:102:ASN:HB2	1:F:201:ASP:OD1	2.16	0.46
1:F:262:GLN:O	1:F:262:GLN:HG2	2.16	0.46
1:F:749:ILE:N	1:F:749:ILE:CD1	2.79	0.46
1:G:251:ARG:CB	1:G:253:TYR:CE1	2.99	0.46
1:G:308:LEU:HD13	1:G:329:ASP:CB	2.46	0.46
1:G:498:ILE:HG22	1:G:499:ILE:N	2.31	0.46
1:G:782:ASP:OD2	1:G:852:SER:OG	2.30	0.46
1:H:100:TYR:CB	1:H:203:TRP:CZ3	2.98	0.46
1:H:387:VAL:CG2	1:H:388:ARG:N	2.79	0.46
1:H:572:ASP:HB3	1:H:603:MET:CB	2.36	0.46
1:H:706:THR:HG23	1:H:709:SER:OG	2.16	0.46
1:H:820:ALA:HB2	1:H:842:TRP:NE1	2.31	0.46
1:I:354:VAL:HG23	1:I:567:VAL:HB	1.98	0.46
1:I:580:GLU:C	1:I:582:GLY:H	2.22	0.46
1:I:743:SER:O	1:I:760:ARG:NH1	2.49	0.46
1:I:869:ASP:CG	1:I:1015:HIS:HD1	2.22	0.46
1:J:40:GLU:CG	1:J:43:ARG:NH1	2.79	0.46
1:J:472:TYR:HD1	1:J:484:VAL:CG1	2.29	0.46
1:J:963:SER:O	1:J:964:GLN:C	2.58	0.46
1:K:79:PRO:CD	1:K:80:GLU:H	2.28	0.46
1:K:100:TYR:O	1:K:597:ASN:HA	2.15	0.46
1:K:123:TYR:N	1:K:123:TYR:CD1	2.84	0.46
1:K:429:ASP:OD1	1:K:430:PRO:HD2	2.15	0.46
1:K:644:PHE:C	1:K:674:PRO:HG3	2.41	0.46
1:K:807:VAL:CG1	1:K:808:GLU:N	2.79	0.46
1:K:904:GLU:CG	1:K:906:TYR:HE1	2.29	0.46
1:L:218:PRO:HD2	1:L:324:GLU:OE2	2.16	0.46
1:L:335:VAL:HG22	1:L:344:LEU:HD12	1.97	0.46
1:L:493:THR:CG2	1:L:494:THR:N	2.79	0.46
1:L:806:TRP:CZ3	1:L:809:ARG:NH2	2.83	0.46
1:M:210:ARG:O	1:M:211:ASP:O	2.34	0.46
1:M:293:LEU:HA	1:M:293:LEU:HD23	1.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:333:ARG:NH1	1:M:451:PRO:HA	2.31	0.46
1:M:645:ARG:NH2	1:M:650:GLU:OE1	2.49	0.46
1:N:18:ASN:ND2	1:N:21:VAL:HG23	2.30	0.46
1:N:615:PRO:HD2	3:N:1287:HOH:O	2.16	0.46
1:N:698:VAL:HG22	1:N:718:GLN:O	2.16	0.46
1:N:775:GLN:NE2	1:N:775:GLN:CA	2.79	0.46
1:N:836:ILE:HG22	1:N:837:THR:N	2.31	0.46
1:N:917:ARG:HH22	1:N:943:GLU:CD	2.23	0.46
1:O:427:THR:HG21	1:O:462:SER:HB3	1.98	0.46
1:O:620:ALA:O	1:O:624:GLN:HB2	2.16	0.46
1:O:651:LEU:CD2	1:O:703:PRO:HG3	2.46	0.46
1:P:134:LEU:HD11	1:P:178:ARG:O	2.16	0.46
1:P:278:ILE:CG2	1:P:279:ILE:N	2.79	0.46
1:P:323:ILE:CD1	1:P:323:ILE:N	2.79	0.46
1:P:906:TYR:N	1:P:906:TYR:CD1	2.83	0.46
1:P:937:LEU:HD23	1:P:937:LEU:C	2.41	0.46
1:P:965:GLN:O	1:P:966:GLN:C	2.59	0.46
1:P:997:ASP:HB2	1:P:999:TRP:CZ2	2.51	0.46
1:A:62:TRP:CZ2	1:A:119:PRO:HB3	2.50	0.46
1:A:767:GLN:HG3	1:A:768:MET:N	2.31	0.46
1:B:330:VAL:HA	3:B:1267:HOH:O	2.15	0.46
1:B:588:TYR:O	1:B:589:GLY:C	2.56	0.46
1:B:842:TRP:O	1:B:843:GLN:HG2	2.16	0.46
1:D:23:GLN:OE1	1:D:26:ARG:N	2.39	0.46
1:D:86:VAL:HG13	1:D:87:PRO:HA	1.98	0.46
1:D:347:LYS:HB3	1:D:348:PRO:HD2	1.98	0.46
1:D:390:SER:HA	1:D:391:HIS:HA	1.59	0.46
1:D:857:ARG:NH1	1:D:857:ARG:CG	2.78	0.46
1:E:285:TYR:HD1	1:H:425:ARG:NH2	2.14	0.46
1:E:368:ASP:OD1	1:E:370:GLN:HB2	2.15	0.46
1:E:486:TYR:H	1:E:496:THR:HB	1.81	0.46
1:E:627:PHE:O	1:E:628:GLN:HG2	2.16	0.46
1:E:807:VAL:CG1	1:E:808:GLU:N	2.78	0.46
1:E:920:LEU:CB	1:E:921:PRO:HD2	2.44	0.46
1:E:960:SER:O	1:E:983:TRP:N	2.47	0.46
1:F:434:PRO:HB3	1:G:434:PRO:HB3	1.98	0.46
1:F:984:LEU:HD21	1:F:986:ILE:HD11	1.97	0.46
1:G:7:LEU:HD12	1:G:74:LEU:CD1	2.42	0.46
1:G:439:ARG:HB3	3:G:1268:HOH:O	2.15	0.46
1:G:558:GLN:HB3	1:G:559:TYR:HD1	1.81	0.46
1:G:559:TYR:N	1:G:559:TYR:HD1	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:894:ARG:NH1	1:G:920:LEU:CA	2.79	0.46
1:G:937:LEU:C	1:G:938:ARG:HG2	2.40	0.46
1:H:261:TRP:CZ3	1:H:266:GLN:N	2.84	0.46
1:H:567:VAL:CG1	1:H:568:TRP:N	2.79	0.46
1:H:883:GLY:HA3	1:H:986:ILE:O	2.15	0.46
1:I:134:LEU:CD1	1:I:179:ALA:N	2.78	0.46
1:I:254:LEU:O	1:I:255:ARG:HD3	2.15	0.46
1:I:406:GLY:O	1:I:407:LEU:HD23	2.16	0.46
1:J:327:ALA:O	1:J:328:CYS:HB3	2.16	0.46
1:J:690:SER:O	1:J:691:ALA:C	2.54	0.46
1:J:994:GLY:N	1:J:1003:VAL:HG22	2.31	0.46
1:K:26:ARG:CZ	1:K:442:ARG:NH1	2.79	0.46
1:K:253:TYR:N	1:K:253:TYR:CD1	2.80	0.46
1:K:1015:HIS:CE1	1:L:1015:HIS:ND1	2.84	0.46
1:L:14:ARG:NH1	1:L:16:TRP:CZ2	2.78	0.46
1:L:246:MET:CG	1:L:274:PHE:CE2	2.99	0.46
1:L:951:TRP:HB3	1:L:1018:LEU:HD21	1.98	0.46
1:L:1018:LEU:C	1:L:1019:VAL:HG23	2.40	0.46
1:M:127:PHE:N	1:M:127:PHE:CD1	2.84	0.46
1:M:256:VAL:CG1	1:M:257:THR:N	2.79	0.46
1:M:413:ALA:HB2	1:M:443:MET:CE	2.46	0.46
1:M:463:GLY:O	1:M:486:TYR:OH	2.28	0.46
1:N:91:GLN:NE2	1:N:190:ARG:CZ	2.79	0.46
1:N:905:ASN:HB2	1:N:910:LEU:HB3	1.97	0.46
1:O:127:PHE:CE1	1:O:184:LEU:CD1	2.99	0.46
1:O:441:THR:HG22	1:O:474:TRP:CE3	2.51	0.46
1:O:686:PRO:C	1:O:688:PRO:HD3	2.41	0.46
1:O:897:TRP:CH2	1:O:918:TRP:CB	2.99	0.46
1:P:115:PRO:HD2	1:P:191:TRP:CB	2.46	0.46
1:P:246:MET:HB3	1:P:274:PHE:HZ	1.81	0.46
1:P:390:SER:CA	1:P:391:HIS:ND1	2.79	0.46
1:P:456:TRP:NE1	1:P:482:ARG:CD	2.79	0.46
1:P:460:ASN:O	1:P:461:GLU:C	2.59	0.46
1:P:906:TYR:CB	1:P:993:ILE:HG23	2.46	0.46
1:A:652:LEU:HD22	1:A:680:ILE:HD12	1.97	0.45
1:A:767:GLN:CG	1:A:768:MET:N	2.78	0.45
1:A:782:ASP:OD1	1:A:842:TRP:HH2	1.99	0.45
1:B:465:GLY:O	1:B:468:HIS:HB2	2.15	0.45
1:B:579:ASP:OD1	1:B:583:ASN:HB2	2.16	0.45
1:B:917:ARG:NH2	1:B:943:GLU:OE2	2.48	0.45
1:C:708:TRP:CD1	1:C:708:TRP:H	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1018:LEU:HA	1:C:1018:LEU:HD23	1.44	0.45
1:E:23:GLN:OE1	1:E:26:ARG:HB3	2.16	0.45
1:E:167:LEU:HD23	1:E:446:ARG:HH11	1.79	0.45
1:E:210:ARG:NH1	1:E:395:HIS:CA	2.79	0.45
1:E:246:MET:CG	1:E:274:PHE:CE2	2.97	0.45
1:E:996:ASP:O	1:E:997:ASP:HB3	2.17	0.45
1:F:420:MET:C	1:F:421:VAL:HG23	2.40	0.45
1:F:729:THR:C	1:F:730:LEU:HD23	2.41	0.45
1:F:881:ARG:HD3	1:F:987:ASP:CG	2.41	0.45
1:G:100:TYR:O	1:G:597:ASN:HA	2.16	0.45
1:G:210:ARG:HH11	1:G:395:HIS:CA	2.29	0.45
1:G:352:ARG:NE	1:G:626:PHE:CE1	2.84	0.45
1:G:552:TYR:O	1:G:553:TRP:C	2.56	0.45
1:G:558:GLN:O	1:H:522:LYS:HE3	2.16	0.45
1:G:847:LYS:HG3	1:G:848:THR:N	2.31	0.45
1:H:211:ASP:OD1	1:H:211:ASP:N	2.29	0.45
1:H:304:GLU:O	1:H:305:ILE:HG12	2.16	0.45
1:H:466:ALA:O	1:H:467:ASN:C	2.57	0.45
1:H:920:LEU:HB3	1:H:921:PRO:CD	2.46	0.45
1:I:114:VAL:HG13	1:I:115:PRO:CD	2.37	0.45
1:I:906:TYR:HB3	1:I:907:PRO:CD	2.45	0.45
1:I:1013:ARG:HH11	1:J:954:ASP:HB2	1.80	0.45
1:J:590:GLY:C	1:J:592:PHE:H	2.23	0.45
1:J:656:VAL:HG12	1:J:657:ALA:N	2.29	0.45
1:K:615:PRO:HB2	1:K:909:ARG:HH21	1.80	0.45
1:K:1021:CYS:SG	1:K:1022:GLN:N	2.89	0.45
1:L:102:ASN:HD22	1:L:201:ASP:CG	2.24	0.45
1:L:107:ILE:CG2	1:L:191:TRP:CE2	2.99	0.45
1:L:767:GLN:CG	1:L:768:MET:N	2.78	0.45
1:M:66:PRO:CB	1:M:187:MET:HE1	2.39	0.45
1:M:301:TRP:CD1	1:M:306:PRO:CA	2.99	0.45
1:M:429:ASP:HB3	1:M:432:TRP:HD1	1.81	0.45
1:M:439:ARG:CG	1:M:439:ARG:NH1	2.78	0.45
1:M:866:ILE:N	1:M:1018:LEU:O	2.43	0.45
1:M:948:PRO:CD	1:M:949:HIS:N	2.78	0.45
1:N:352:ARG:CZ	1:N:626:PHE:CE1	2.99	0.45
1:N:643:LEU:HA	1:N:643:LEU:HD23	1.52	0.45
1:O:46:ARG:HB3	1:O:47:PRO:CD	2.46	0.45
1:O:354:VAL:HG22	1:O:355:ASN:O	2.16	0.45
1:O:568:TRP:NE1	1:O:604:ASN:HD22	1.99	0.45
1:O:730:LEU:HD12	1:O:731:PRO:N	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:797:GLU:O	1:O:798:ALA:C	2.59	0.45
1:P:22:THR:O	1:P:23:GLN:HB3	2.16	0.45
1:P:126:THR:HA	1:P:182:ASN:O	2.17	0.45
1:P:341:LEU:HD23	1:P:561:ARG:HG2	1.97	0.45
1:P:662:PRO:O	1:P:663:LEU:HD23	2.16	0.45
1:P:740:LEU:HD13	1:P:749:ILE:CD1	2.45	0.45
1:P:784:PHE:CD2	1:P:850:PHE:CD2	3.05	0.45
1:P:805:ALA:O	1:P:809:ARG:HG3	2.16	0.45
1:A:37:ARG:NH2	1:A:216:HIS:O	2.50	0.45
1:A:79:PRO:CG	1:A:80:GLU:H	2.28	0.45
1:A:223:SER:O	1:A:224:ASP:HB2	2.16	0.45
1:A:334:GLU:OE1	1:A:336:ARG:HD3	2.17	0.45
1:A:434:PRO:HB3	1:D:434:PRO:HB3	1.98	0.45
1:B:367:MET:HE1	1:B:371:THR:CG2	2.47	0.45
1:B:409:VAL:CG1	1:B:410:VAL:N	2.79	0.45
1:B:419:GLY:HA2	1:C:282:ARG:HH11	1.80	0.45
1:B:738:PRO:N	1:B:751:LEU:HD13	2.32	0.45
1:B:767:GLN:CG	1:B:768:MET:N	2.79	0.45
1:B:856:TYR:CD2	1:B:864:MET:CE	2.97	0.45
1:B:857:ARG:O	1:B:857:ARG:HG2	2.14	0.45
1:B:939:CYS:HA	1:B:956:GLN:HB3	1.97	0.45
1:C:100:TYR:CZ	1:C:602:CYS:HB3	2.51	0.45
1:C:357:HIS:HD2	1:C:392:TYR:OH	1.99	0.45
1:C:513:PRO:O	1:C:514:ALA:HB3	2.15	0.45
1:C:928:PRO:HB2	1:C:973:ARG:HH11	1.81	0.45
1:D:619:GLU:OE1	1:D:619:GLU:HA	2.16	0.45
1:D:668:VAL:HG13	1:D:669:PRO:CD	2.47	0.45
1:D:810:TRP:CZ2	1:D:991:MET:CE	3.00	0.45
1:E:144:ASP:CB	1:E:210:ARG:HB3	2.45	0.45
1:G:227:VAL:HG13	1:G:240:LEU:HD11	1.95	0.45
1:G:240:LEU:CD2	1:G:260:LEU:HD13	2.47	0.45
1:G:768:MET:HE2	1:G:1022:GLN:HE21	1.80	0.45
1:H:165:SER:OG	1:H:198:GLU:OE2	2.32	0.45
1:H:354:VAL:HG22	1:H:355:ASN:O	2.16	0.45
1:H:667:GLU:O	1:H:668:VAL:HG22	2.16	0.45
1:H:872:VAL:CG1	1:H:873:ALA:N	2.79	0.45
1:I:85:VAL:O	1:I:88:SER:HB3	2.15	0.45
1:I:968:MET:HG3	1:I:968:MET:O	2.16	0.45
1:J:52:ARG:HB3	1:J:214:LEU:HB2	1.96	0.45
1:J:387:VAL:CG2	1:J:388:ARG:N	2.79	0.45
1:J:767:GLN:OE1	1:J:768:MET:N	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:210:ARG:NH1	1:K:395:HIS:CA	2.80	0.45
1:K:927:THR:HG21	1:K:929:TYR:CZ	2.51	0.45
1:L:58:TRP:CE2	1:L:125:LEU:CD2	2.99	0.45
1:L:258:VAL:CG1	1:L:293:LEU:HD11	2.38	0.45
1:L:499:ILE:H	1:L:499:ILE:HG13	1.50	0.45
1:M:51:LEU:HD12	1:M:52:ARG:N	2.31	0.45
1:M:232:ASN:ND2	1:M:236:SER:H	2.14	0.45
1:M:251:ARG:HB3	1:M:253:TYR:CZ	2.50	0.45
1:M:842:TRP:CH2	1:M:852:SER:HB3	2.51	0.45
1:N:310:ARG:HG3	1:N:311:ALA:H	1.80	0.45
1:N:585:TRP:CE3	1:N:974:HIS:CE1	3.04	0.45
1:O:129:VAL:CG2	1:O:182:ASN:ND2	2.79	0.45
1:O:687:GLN:N	1:O:688:PRO:CD	2.79	0.45
1:O:894:ARG:HH11	1:O:919:ASP:CG	2.24	0.45
1:P:110:ASN:O	1:P:113:PHE:HB2	2.15	0.45
1:P:246:MET:CB	1:P:274:PHE:CZ	2.98	0.45
1:P:789:LEU:O	1:P:790:ASP:C	2.58	0.45
1:P:807:VAL:CG1	1:P:808:GLU:N	2.79	0.45
1:P:823:LEU:HD12	1:P:839:ALA:O	2.16	0.45
1:P:870:VAL:CG1	1:P:871:GLU:N	2.79	0.45
1:P:944:LEU:O	1:P:950:GLN:HA	2.16	0.45
1:A:14:ARG:NH1	1:A:14:ARG:CG	2.78	0.45
1:A:100:TYR:CE2	1:A:598:ASP:HB2	2.51	0.45
1:A:391:HIS:CD2	1:A:460:ASN:ND2	2.85	0.45
1:A:419:GLY:HA2	1:D:282:ARG:NH1	2.31	0.45
1:A:588:TYR:O	1:A:589:GLY:C	2.60	0.45
1:A:608:PHE:O	1:A:610:ASP:N	2.50	0.45
1:A:662:PRO:C	1:A:663:LEU:HD23	2.41	0.45
1:A:975:LEU:HA	1:A:975:LEU:HD23	1.55	0.45
1:B:59:ARG:HA	1:B:82:ASP:O	2.15	0.45
1:B:621:LYS:HE2	1:B:717:TRP:HZ3	1.80	0.45
1:B:775:GLN:NE2	1:B:775:GLN:CA	2.80	0.45
1:C:368:ASP:O	1:C:369:GLU:C	2.59	0.45
1:C:657:ALA:O	1:C:694:LEU:HD12	2.17	0.45
1:C:768:MET:HG3	1:C:769:TRP:N	2.28	0.45
1:D:189:LEU:N	1:D:189:LEU:CD2	2.80	0.45
1:D:367:MET:HA	1:D:367:MET:HE3	1.98	0.45
1:D:682:LEU:HA	1:D:683:PRO:HD3	1.68	0.45
1:D:919:ASP:O	1:D:920:LEU:HD23	2.16	0.45
1:E:18:ASN:ND2	1:E:21:VAL:CG2	2.79	0.45
1:E:50:GLN:O	1:E:215:LEU:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:210:ARG:HH11	1:E:395:HIS:HA	1.81	0.45
1:E:249:GLU:CB	1:E:251:ARG:NH1	2.79	0.45
1:E:395:HIS:CE1	1:E:397:LEU:HB3	2.50	0.45
1:E:400:THR:HG22	1:E:404:ARG:HD3	1.98	0.45
1:E:487:GLU:O	1:E:488:GLY:C	2.57	0.45
1:E:531:ARG:HB3	1:E:532:PRO:CD	2.46	0.45
1:E:661:LYS:O	1:E:663:LEU:HD23	2.16	0.45
1:E:810:TRP:CH2	1:E:991:MET:CE	2.99	0.45
1:E:894:ARG:NH1	1:E:920:LEU:CA	2.78	0.45
1:E:926:TYR:O	1:E:928:PRO:HD3	2.17	0.45
1:F:413:ALA:HB2	1:F:443:MET:HE2	1.98	0.45
1:F:578:TYR:HA	1:F:583:ASN:O	2.16	0.45
1:G:63:PHE:HB3	1:G:64:PRO:HD2	1.98	0.45
1:G:85:VAL:HG12	1:G:86:VAL:N	2.32	0.45
1:G:256:VAL:O	1:G:256:VAL:HG12	2.12	0.45
1:G:372:MET:HE1	1:G:395:HIS:HB3	1.98	0.45
1:G:510:GLN:HA	1:G:511:PRO:HD2	1.83	0.45
1:G:991:MET:CG	1:G:992:GLY:N	2.79	0.45
1:H:152:LEU:CG	1:H:153:TRP:N	2.80	0.45
1:H:492:ASP:HB3	1:H:499:ILE:CG2	2.45	0.45
1:H:599:ARG:HB2	1:H:600:GLN:H	1.36	0.45
1:H:951:TRP:N	1:H:951:TRP:HE3	2.14	0.45
1:H:970:THR:CG2	1:H:975:LEU:HB2	2.47	0.45
1:I:38:ASN:HD22	1:I:41:GLU:H	1.65	0.45
1:I:395:HIS:CG	1:I:396:PRO:HD2	2.51	0.45
1:J:62:TRP:CZ2	1:J:119:PRO:HB3	2.51	0.45
1:J:304:GLU:C	1:J:305:ILE:HG12	2.42	0.45
1:J:463:GLY:O	1:J:486:TYR:OH	2.28	0.45
1:J:698:VAL:CG2	1:J:720:TRP:HZ3	2.30	0.45
1:K:126:THR:O	1:K:126:THR:HG22	2.15	0.45
1:K:240:LEU:CD2	1:K:260:LEU:HD13	2.46	0.45
1:K:354:VAL:CG2	1:K:355:ASN:N	2.79	0.45
1:K:545:SER:OG	1:K:791:ASN:ND2	2.46	0.45
1:L:390:SER:CA	1:L:391:HIS:ND1	2.79	0.45
1:L:409:VAL:CG1	1:L:410:VAL:N	2.79	0.45
1:L:433:LEU:N	1:L:434:PRO:CD	2.80	0.45
1:L:654:TRP:HE3	1:L:655:MET:N	2.14	0.45
1:L:856:TYR:CD2	1:L:864:MET:CE	3.00	0.45
1:L:870:VAL:N	1:L:1014:TYR:O	2.45	0.45
1:M:12:GLN:NE2	1:M:12:GLN:O	2.50	0.45
1:M:118:ASN:HB2	1:M:191:TRP:HD1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:143:PHE:O	1:M:145:GLY:N	2.50	0.45
1:M:257:THR:C	1:M:258:VAL:HG23	2.41	0.45
1:M:409:VAL:HG12	1:M:410:VAL:C	2.41	0.45
1:M:592:PHE:N	1:M:594:ASP:OD1	2.48	0.45
1:M:959:ILE:HB	1:M:984:LEU:HD11	1.98	0.45
1:N:6:SER:O	1:N:9:VAL:HB	2.17	0.45
1:N:24:LEU:HA	1:N:24:LEU:HD12	1.46	0.45
1:N:188:VAL:HG12	1:N:189:LEU:N	2.32	0.45
1:N:742:THR:CG2	1:N:743:SER:N	2.79	0.45
1:O:558:GLN:NE2	1:P:509:ASP:OD2	2.49	0.45
1:O:745:MET:CE	1:O:761:GLN:NE2	2.80	0.45
1:O:753:ASN:OD1	1:O:753:ASN:N	2.49	0.45
1:O:777:LEU:HG	1:O:889:ALA:HB2	1.97	0.45
1:P:127:PHE:CE1	1:P:184:LEU:CD1	2.99	0.45
1:P:137:GLY:HA3	1:P:217:LYS:O	2.16	0.45
1:P:173:LEU:O	1:P:177:LEU:N	2.42	0.45
1:P:694:LEU:HA	1:P:694:LEU:HD12	1.60	0.45
1:P:887:GLN:O	1:P:888:LEU:C	2.58	0.45
1:A:46:ARG:HB3	1:A:47:PRO:HD2	1.99	0.45
1:A:210:ARG:HH11	1:A:395:HIS:HB2	1.80	0.45
1:A:237:ARG:NH1	1:A:237:ARG:CG	2.80	0.45
1:A:424:ASN:OD1	1:D:279:ILE:HD11	2.17	0.45
1:B:251:ARG:CB	1:B:253:TYR:CE2	2.99	0.45
1:B:595:THR:CG2	1:B:596:PRO:HA	2.42	0.45
1:C:80:GLU:H	1:C:80:GLU:HG3	1.32	0.45
1:C:549:PHE:O	1:C:550:ALA:C	2.57	0.45
1:D:683:PRO:O	1:D:684:GLU:C	2.55	0.45
1:D:967:LEU:HA	1:D:967:LEU:HD23	1.70	0.45
1:E:194:GLY:O	1:E:198:GLU:HG3	2.16	0.45
1:E:693:GLN:CG	1:E:721:ARG:HD2	2.46	0.45
1:E:708:TRP:CD1	1:E:708:TRP:H	2.33	0.45
1:E:757:GLN:O	1:E:765:LEU:HD12	2.15	0.45
1:F:134:LEU:HD11	1:F:179:ALA:HA	1.98	0.45
1:G:579:ASP:OD1	1:G:583:ASN:N	2.48	0.45
1:G:936:GLY:O	1:G:937:LEU:C	2.60	0.45
1:H:16:TRP:CE3	1:H:189:LEU:CD1	3.00	0.45
1:H:231:PHE:HA	1:H:237:ARG:O	2.17	0.45
1:H:333:ARG:NH1	1:H:451:PRO:O	2.50	0.45
1:H:995:GLY:H	1:H:1002:SER:HG	1.61	0.45
1:H:1020:TRP:HD1	1:H:1021:CYS:H	1.64	0.45
1:I:130:ASP:OD1	1:I:132:SER:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:131:GLU:H	1:I:131:GLU:HG2	1.52	0.45
1:I:403:ASP:OD1	1:I:452:SER:OG	2.34	0.45
1:I:524:LEU:HD13	1:I:561:ARG:HB2	1.98	0.45
1:J:65:ALA:HA	1:J:118:ASN:O	2.17	0.45
1:J:509:ASP:C	1:J:511:PRO:HD3	2.41	0.45
1:J:627:PHE:C	1:J:628:GLN:HG2	2.41	0.45
1:K:84:VAL:HG12	1:K:85:VAL:N	2.32	0.45
1:K:135:GLN:HB3	1:K:136:GLU:HG3	1.99	0.45
1:K:246:MET:HE2	1:K:287:ASP:HB3	1.98	0.45
1:K:538:TYR:CE1	1:K:567:VAL:HG23	2.51	0.45
1:K:738:PRO:N	1:K:751:LEU:CD1	2.80	0.45
1:K:775:GLN:NE2	1:K:775:GLN:CA	2.79	0.45
1:K:954:ASP:CB	1:L:1013:ARG:NH2	2.79	0.45
1:L:78:LEU:CB	1:L:79:PRO:HD2	2.41	0.45
1:L:192:SER:O	1:L:193:ASP:C	2.57	0.45
1:L:513:PRO:C	1:L:515:VAL:H	2.24	0.45
1:L:691:ALA:HA	1:L:725:ASN:HB3	1.99	0.45
1:M:90:TRP:CZ3	1:M:121:GLY:HA3	2.52	0.45
1:M:129:VAL:CG1	1:M:130:ASP:N	2.79	0.45
1:M:433:LEU:CA	1:M:467:ASN:ND2	2.79	0.45
1:M:474:TRP:CE2	1:M:478:VAL:HG21	2.52	0.45
1:M:517:LYS:HE2	3:M:1259:HOH:O	2.17	0.45
1:M:523:TRP:CD1	1:M:526:LEU:CD1	3.00	0.45
1:N:227:VAL:HG12	1:N:228:ALA:N	2.31	0.45
1:N:382:ASN:O	1:N:621:LYS:HA	2.17	0.45
1:N:694:LEU:HD12	1:N:694:LEU:HA	1.75	0.45
1:O:27:LEU:CD1	1:O:140:ARG:NH1	2.79	0.45
1:O:100:TYR:CZ	1:O:602:CYS:HB3	2.52	0.45
1:O:153:TRP:CD1	1:O:158:TRP:N	2.85	0.45
1:O:210:ARG:NH1	1:O:395:HIS:CA	2.79	0.45
1:O:670:LEU:HD23	1:O:670:LEU:HA	1.59	0.45
1:O:770:ILE:CD1	1:O:1022:GLN:HG2	2.42	0.45
1:O:778:THR:OG1	1:O:887:GLN:HB3	2.16	0.45
1:O:850:PHE:HA	1:O:871:GLU:O	2.17	0.45
1:P:203:TRP:CD1	1:P:575:LEU:HD21	2.51	0.45
1:P:246:MET:CG	1:P:274:PHE:CZ	2.97	0.45
1:P:466:ALA:O	1:P:467:ASN:C	2.59	0.45
1:P:559:TYR:CB	1:P:562:LEU:HD12	2.34	0.45
1:P:670:LEU:HA	1:P:670:LEU:HD23	1.50	0.45
1:P:705:ALA:HB1	1:P:709:SER:O	2.16	0.45
1:B:133:TRP:HA	1:B:216:HIS:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:ARG:HH11	1:C:419:GLY:HA2	1.82	0.45
1:B:375:ASP:HB3	1:B:379:MET:HE3	1.98	0.45
1:B:434:PRO:HB3	1:C:434:PRO:HB3	1.99	0.45
1:B:870:VAL:O	1:B:1013:ARG:HA	2.17	0.45
1:B:876:THR:HA	1:B:877:PRO:HD3	1.81	0.45
1:C:749:ILE:N	1:C:749:ILE:CD1	2.80	0.45
1:C:807:VAL:CG1	1:C:808:GLU:N	2.79	0.45
1:D:237:ARG:HD2	1:D:296:GLU:HG2	1.99	0.45
1:D:651:LEU:CD1	1:D:669:PRO:HA	2.47	0.45
1:D:895:VAL:CG1	1:D:896:ASN:N	2.79	0.45
1:D:904:GLU:CG	1:D:906:TYR:HE1	2.26	0.45
1:E:26:ARG:O	1:E:27:LEU:O	2.34	0.45
1:E:105:TYR:CD2	1:E:109:VAL:CG2	2.99	0.45
1:E:309:TYR:O	1:E:330:VAL:N	2.39	0.45
1:E:395:HIS:CE1	1:E:397:LEU:CB	2.99	0.45
1:E:601:PHE:CZ	1:E:795:VAL:CG1	3.00	0.45
1:E:875:ASP:OD2	1:F:723:ALA:HB1	2.17	0.45
1:F:11:LEU:HD13	1:F:66:PRO:HB2	1.99	0.45
1:F:189:LEU:N	1:F:189:LEU:CD2	2.79	0.45
1:F:258:VAL:HG22	1:F:313:VAL:HG22	1.99	0.45
1:F:682:LEU:CD2	1:F:683:PRO:HD2	2.47	0.45
1:F:722:LEU:HD23	1:F:722:LEU:HA	1.77	0.45
1:G:91:GLN:HG3	1:G:96:ASP:OD1	2.16	0.45
1:G:542:MET:HE3	1:G:601:PHE:HA	1.98	0.45
1:G:698:VAL:CG2	1:G:720:TRP:CH2	3.00	0.45
1:G:894:ARG:HH12	1:G:920:LEU:CA	2.28	0.45
1:H:35:SER:OG	1:H:217:LYS:HG2	2.16	0.45
1:H:70:PRO:CG	1:H:78:LEU:HD11	2.36	0.45
1:H:73:TRP:CD1	1:H:183:ARG:HH22	2.34	0.45
1:H:399:TYR:CE1	1:H:446:ARG:NH2	2.84	0.45
1:H:448:ARG:HA	1:H:482:ARG:HH12	1.82	0.45
1:H:590:GLY:CA	1:H:597:ASN:ND2	2.80	0.45
1:H:789:LEU:O	1:H:792:ASP:N	2.49	0.45
1:I:85:VAL:CG1	1:I:86:VAL:N	2.80	0.45
1:I:210:ARG:HH12	1:I:395:HIS:N	2.14	0.45
1:I:471:LEU:O	1:I:475:ILE:HG13	2.16	0.45
1:I:548:GLY:O	1:I:549:PHE:C	2.55	0.45
1:I:970:THR:HG21	1:I:976:LEU:CD2	2.46	0.45
1:J:599:ARG:HB2	1:J:600:GLN:OE1	2.15	0.45
1:K:352:ARG:HB2	1:K:385:ASN:HB2	1.98	0.45
1:K:515:VAL:HG23	1:K:515:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:747:PHE:CZ	1:K:760:ARG:CD	2.99	0.45
1:K:796:SER:OG	1:K:802:ASP:N	2.37	0.45
1:K:894:ARG:NH1	1:K:920:LEU:CA	2.80	0.45
1:L:30:HIS:ND1	1:L:31:PRO:O	2.45	0.45
1:L:58:TRP:NE1	1:L:125:LEU:HD22	2.32	0.45
1:L:330:VAL:CG1	1:L:332:PHE:CE1	3.00	0.45
1:L:766:SER:O	1:L:767:GLN:HB2	2.16	0.45
1:M:63:PHE:HA	1:M:64:PRO:HD3	1.75	0.45
1:M:99:ILE:CG2	1:M:100:TYR:N	2.79	0.45
1:M:132:SER:O	1:M:133:TRP:C	2.59	0.45
1:M:210:ARG:HH12	1:M:395:HIS:N	2.14	0.45
1:M:279:ILE:HG13	1:M:280:ASP:N	2.30	0.45
1:M:418:HIS:O	1:M:420:MET:N	2.49	0.45
1:M:599:ARG:NH2	1:M:797:GLU:HG3	2.30	0.45
1:M:764:PHE:O	1:M:765:LEU:C	2.59	0.45
1:N:84:VAL:CG1	1:N:85:VAL:N	2.79	0.45
1:N:117:GLU:OE1	1:N:117:GLU:N	2.37	0.45
1:N:134:LEU:HD22	1:N:134:LEU:HA	1.65	0.45
1:N:232:ASN:HD21	1:N:236:SER:CB	2.15	0.45
1:N:658:LEU:HD12	1:N:659:ASP:H	1.76	0.45
1:N:678:GLN:O	1:N:679:LEU:HD23	2.17	0.45
1:N:708:TRP:CD1	1:N:708:TRP:N	2.84	0.45
1:O:103:VAL:CG2	1:O:418:HIS:CE1	3.00	0.45
1:O:238:ALA:HB2	1:O:298:PRO:HG3	1.99	0.45
1:O:704:ASN:OD1	1:O:704:ASN:N	2.49	0.45
1:O:782:ASP:CA	1:O:884:LEU:HD23	2.43	0.45
1:P:84:VAL:HG12	1:P:85:VAL:H	1.82	0.45
1:P:352:ARG:CZ	1:P:626:PHE:CE1	3.00	0.45
1:P:375:ASP:O	1:P:378:LEU:HB2	2.17	0.45
1:P:643:LEU:HD23	1:P:643:LEU:HA	1.74	0.45
1:P:738:PRO:N	1:P:751:LEU:CD1	2.80	0.45
1:P:745:MET:O	1:P:746:ASP:HB3	2.16	0.45
1:P:786:ARG:CZ	1:P:789:LEU:HD11	2.47	0.45
1:P:815:HIS:HE1	1:P:877:PRO:O	1.99	0.45
1:B:134:LEU:N	1:B:134:LEU:CD2	2.79	0.45
1:B:390:SER:CA	1:B:391:HIS:ND1	2.79	0.45
1:B:891:VAL:O	1:B:891:VAL:HG12	2.16	0.45
1:C:490:GLY:O	1:C:491:ALA:HB3	2.16	0.45
1:C:789:LEU:O	1:C:792:ASP:HB2	2.17	0.45
1:C:836:ILE:N	1:C:836:ILE:CD1	2.80	0.45
1:C:876:THR:OG1	1:C:877:PRO:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:210:ARG:HH11	1:D:395:HIS:HB2	1.82	0.45
1:D:250:LEU:HA	1:D:250:LEU:HD23	1.64	0.45
1:D:621:LYS:HE2	1:D:717:TRP:HZ3	1.82	0.45
1:D:778:THR:HG23	1:D:779:PRO:HD2	1.99	0.45
1:E:249:GLU:CD	1:E:251:ARG:HH22	2.24	0.45
1:E:336:ARG:NH2	1:E:338:GLU:OE2	2.48	0.45
1:E:390:SER:CB	1:E:391:HIS:CE1	3.00	0.45
1:E:590:GLY:N	1:E:597:ASN:HD22	2.15	0.45
1:E:762:SER:O	1:E:822:LEU:HD22	2.16	0.45
1:E:797:GLU:HB2	1:E:800:ARG:H	1.81	0.45
1:E:824:GLN:HB3	1:E:839:ALA:HB3	1.99	0.45
1:E:1005:ALA:O	1:E:1006:GLU:C	2.58	0.45
1:F:78:LEU:N	1:F:78:LEU:HD23	2.31	0.45
1:F:360:HIS:CE1	1:F:362:LEU:H	2.34	0.45
1:F:475:ILE:O	1:F:476:LYS:C	2.57	0.45
1:F:651:LEU:N	1:F:701:VAL:O	2.42	0.45
1:G:490:GLY:O	1:G:491:ALA:HB3	2.17	0.45
1:H:367:MET:HB3	1:H:372:MET:HE3	1.98	0.45
1:H:479:ASP:OD1	1:H:481:SER:OG	2.26	0.45
1:H:891:VAL:O	1:H:891:VAL:HG12	2.16	0.45
1:H:1000:SER:HB2	1:H:1001:PRO:HD2	1.99	0.45
1:I:77:ASP:O	1:I:78:LEU:HD23	2.16	0.45
1:I:89:ASN:ND2	1:I:205:MET:HB3	2.32	0.45
1:I:786:ARG:O	1:I:816:TYR:OH	2.30	0.45
1:J:672:VAL:HG13	1:J:678:GLN:CB	2.42	0.45
1:K:14:ARG:HH12	1:K:16:TRP:HZ2	1.63	0.45
1:K:84:VAL:CG1	1:K:85:VAL:N	2.79	0.45
1:K:141:ILE:HG12	1:K:142:ILE:N	2.30	0.45
1:K:308:LEU:HD23	1:K:308:LEU:HA	1.62	0.45
1:K:759:ASN:OD1	1:K:761:GLN:N	2.34	0.45
1:L:194:GLY:O	1:L:198:GLU:HG3	2.16	0.45
1:L:349:LEU:O	1:L:563:GLN:HB3	2.16	0.45
1:L:959:ILE:HB	1:L:984:LEU:HD12	1.98	0.45
1:M:27:LEU:CD1	1:M:140:ARG:NH2	2.80	0.45
1:M:50:GLN:NE2	1:M:50:GLN:H	2.15	0.45
1:M:246:MET:HE3	1:M:246:MET:C	2.41	0.45
1:M:796:SER:HG	1:M:802:ASP:H	1.60	0.45
1:M:920:LEU:C	1:M:921:PRO:O	2.58	0.45
1:N:474:TRP:CZ2	1:N:478:VAL:HG21	2.51	0.45
1:O:232:ASN:ND2	1:O:237:ARG:CG	2.80	0.45
1:O:374:GLN:O	1:O:378:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:436:MET:HE2	1:O:436:MET:HB3	1.86	0.45
1:O:505:ARG:NE	3:O:1250:HOH:O	2.29	0.45
1:O:506:VAL:HA	1:O:520:ILE:HG12	1.99	0.45
1:O:888:LEU:O	1:O:981:GLY:HA3	2.17	0.45
1:P:229:THR:HG21	1:P:332:PHE:CE2	2.51	0.45
1:P:568:TRP:HA	1:P:569:ASP:HB3	1.97	0.45
1:P:570:TRP:CD1	1:P:571:VAL:CG2	2.98	0.45
1:P:592:PHE:N	1:P:592:PHE:CD1	2.85	0.45
1:P:768:MET:HE1	1:P:1022:GLN:NE2	2.31	0.45
1:P:955:PHE:CD2	1:P:986:ILE:CG2	3.00	0.45
1:A:24:LEU:HD12	1:A:24:LEU:HA	1.89	0.45
1:A:35:SER:O	1:A:36:TRP:C	2.58	0.45
1:A:280:ASP:HB2	1:A:281:GLU:H	1.63	0.45
1:A:369:GLU:O	1:A:373:VAL:HG23	2.17	0.45
1:A:393:PRO:HD3	1:A:412:GLU:O	2.17	0.45
1:C:476:LYS:HA	1:C:476:LYS:HD2	1.82	0.45
1:C:600:GLN:HE21	1:C:600:GLN:HB2	1.55	0.45
1:C:802:ASP:C	1:C:804:ASN:H	2.24	0.45
1:D:114:VAL:CG1	1:D:115:PRO:N	2.80	0.45
1:D:758:PHE:CE2	1:D:836:ILE:HG13	2.52	0.45
1:E:249:GLU:CG	1:E:251:ARG:NH2	2.80	0.45
1:E:308:LEU:HD23	1:E:308:LEU:HA	1.52	0.45
1:E:742:THR:CG2	1:E:760:ARG:NH1	2.80	0.45
1:E:778:THR:HB	1:E:887:GLN:H	1.81	0.45
1:E:1000:SER:HB2	1:E:1001:PRO:HD2	1.99	0.45
1:F:414:ASN:HB3	3:F:1267:HOH:O	2.17	0.45
1:F:419:GLY:HA2	1:G:282:ARG:HH11	1.82	0.45
1:F:689:GLU:C	1:F:690:SER:O	2.59	0.45
1:G:90:TRP:HE1	1:G:96:ASP:CG	2.25	0.45
1:G:821:ALA:C	1:G:840:HIS:HB3	2.42	0.45
1:H:194:GLY:O	1:H:198:GLU:HG3	2.17	0.45
1:H:324:GLU:CG	1:H:325:ALA:N	2.79	0.45
1:H:394:ASN:O	1:H:399:TYR:HE1	2.00	0.45
1:H:533:LEU:C	1:H:533:LEU:HD12	2.41	0.45
1:H:616:ALA:O	1:H:617:LEU:C	2.58	0.45
1:I:257:THR:HG23	1:I:270:GLY:O	2.17	0.45
1:I:425:ARG:NH1	1:L:285:TYR:CD1	2.84	0.45
1:I:427:THR:HG22	1:I:436:MET:SD	2.57	0.45
1:J:850:PHE:CD2	1:J:872:VAL:HG13	2.52	0.45
1:K:218:PRO:HG3	1:K:324:GLU:HG3	1.98	0.45
1:K:244:VAL:CG1	1:K:245:GLN:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:909:ARG:HG2	1:K:909:ARG:O	2.15	0.45
1:L:67:GLU:H	1:L:67:GLU:HG2	1.01	0.45
1:L:127:PHE:CE1	1:L:184:LEU:CD1	2.99	0.45
1:L:759:ASN:OD1	1:L:761:GLN:HG3	2.16	0.45
1:L:892:ALA:HB3	1:L:946:TYR:HE1	1.73	0.45
1:M:29:ALA:HB2	1:M:442:ARG:HD2	1.97	0.45
1:M:301:TRP:CD1	1:M:308:LEU:CD2	3.00	0.45
1:M:323:ILE:N	1:M:323:ILE:CD1	2.79	0.45
1:M:581:ASN:CB	1:M:583:ASN:HD21	2.05	0.45
1:M:608:PHE:O	1:M:610:ASP:N	2.50	0.45
1:M:689:GLU:C	1:M:690:SER:O	2.59	0.45
1:M:822:LEU:HA	1:M:822:LEU:HD13	1.59	0.45
1:M:906:TYR:OH	1:M:934:GLU:OE2	2.29	0.45
1:N:176:PHE:O	1:N:177:LEU:O	2.34	0.45
1:N:424:ASN:HB2	1:O:279:ILE:HD11	1.97	0.45
1:N:786:ARG:HG2	1:N:880:ALA:HB1	1.98	0.45
1:N:948:PRO:O	1:N:1022:GLN:HA	2.17	0.45
1:O:14:ARG:NH1	1:O:16:TRP:CZ2	2.80	0.45
1:O:40:GLU:O	1:O:41:GLU:C	2.58	0.45
1:O:351:ILE:HD12	1:O:351:ILE:HG23	1.74	0.45
1:O:782:ASP:OD1	1:O:842:TRP:HH2	1.99	0.45
1:P:214:LEU:HD23	1:P:214:LEU:HA	1.56	0.45
1:P:571:VAL:CG1	1:P:572:ASP:N	2.79	0.45
1:P:702:GLN:O	1:P:712:GLY:N	2.49	0.45
1:P:813:ALA:CB	1:P:815:HIS:CD2	3.00	0.45
1:P:927:THR:CG2	1:P:929:TYR:CE2	3.00	0.45
1:P:946:TYR:HE2	1:P:982:THR:CG2	2.30	0.45
1:A:59:ARG:NH2	1:A:81:ALA:HB3	2.32	0.45
1:A:132:SER:O	1:A:133:TRP:C	2.60	0.45
1:A:155:ASN:ND2	1:A:178:ARG:HG3	2.32	0.45
1:A:376:ILE:HG13	1:A:398:TRP:CZ3	2.52	0.45
1:A:881:ARG:HD3	1:A:987:ASP:CG	2.42	0.45
1:B:246:MET:HE3	1:B:247:CYS:CA	2.47	0.45
1:B:518:TRP:CE3	1:B:522:LYS:HE2	2.52	0.45
1:C:395:HIS:CG	1:C:396:PRO:HD2	2.51	0.45
1:C:875:ASP:OD2	1:D:723:ALA:HB1	2.16	0.45
1:D:30:HIS:HB2	1:D:31:PRO:CD	2.45	0.45
1:D:390:SER:HA	1:D:391:HIS:ND1	2.32	0.45
1:D:390:SER:CB	1:D:391:HIS:ND1	2.79	0.45
1:D:499:ILE:HG22	1:D:533:LEU:HD22	1.96	0.45
1:D:572:ASP:HB3	1:D:603:MET:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:892:ALA:HB3	1:D:946:TYR:CE1	2.51	0.45
1:E:106:PRO:CG	1:E:204:ARG:NH1	2.80	0.45
1:E:125:LEU:CG	1:E:126:THR:N	2.79	0.45
1:E:574:SER:OG	3:E:1289:HOH:O	2.11	0.45
1:E:653:HIS:CD2	1:E:667:GLU:CG	3.00	0.45
1:F:85:VAL:HG13	1:F:86:VAL:N	2.31	0.45
1:F:446:ARG:NE	1:F:447:ASP:OD1	2.49	0.45
1:G:424:ASN:HD22	1:G:424:ASN:HA	1.45	0.45
1:G:499:ILE:HG22	1:G:501:PRO:HD3	1.98	0.45
1:G:767:GLN:CG	1:G:768:MET:N	2.79	0.45
1:G:824:GLN:HE21	1:G:824:GLN:HB2	1.36	0.45
1:H:36:TRP:HB2	1:H:325:ALA:HB3	1.98	0.45
1:H:62:TRP:C	1:H:63:PHE:CD1	2.94	0.45
1:H:130:ASP:OD1	1:H:131:GLU:N	2.50	0.45
1:I:110:ASN:O	1:I:113:PHE:N	2.50	0.45
1:I:410:VAL:HG22	1:I:455:ILE:HB	1.99	0.45
1:I:515:VAL:HG21	1:L:281:GLU:OE1	2.17	0.45
1:I:599:ARG:HB2	1:I:600:GLN:H	1.27	0.45
1:I:927:THR:CG2	1:I:929:TYR:CE2	2.99	0.45
1:J:63:PHE:CE2	1:J:70:PRO:HD3	2.52	0.45
1:J:246:MET:HB3	1:J:274:PHE:CZ	2.52	0.45
1:J:433:LEU:CB	1:J:434:PRO:HD3	2.42	0.45
1:J:906:TYR:OH	1:J:935:ASN:HA	2.16	0.45
1:L:851:ILE:O	1:L:851:ILE:HG22	2.14	0.45
1:M:105:TYR:CE1	1:M:199:ASP:HB2	2.52	0.45
1:M:199:ASP:O	1:M:416:GLU:HG2	2.17	0.45
1:M:279:ILE:HD11	1:P:422:PRO:HB2	1.98	0.45
1:M:464:HIS:N	3:M:1221:HOH:O	2.39	0.45
1:M:474:TRP:HE3	1:M:475:ILE:HG12	1.82	0.45
1:M:576:ILE:CG2	1:M:577:LYS:N	2.79	0.45
1:M:653:HIS:CD2	1:M:667:GLU:CG	3.00	0.45
1:M:694:LEU:HD12	1:M:694:LEU:HA	1.68	0.45
1:N:44:THR:O	1:N:45:ASP:C	2.60	0.45
1:N:654:TRP:CE2	1:N:666:GLY:CA	2.99	0.45
1:N:941:THR:HG22	1:N:943:GLU:H	1.81	0.45
1:O:84:VAL:CG1	1:O:93:HIS:CE1	3.00	0.45
1:O:357:HIS:HE1	1:O:568:TRP:HH2	1.65	0.45
1:O:518:TRP:CE3	1:O:522:LYS:HE2	2.51	0.45
1:O:786:ARG:N	3:O:1253:HOH:O	2.29	0.45
1:O:897:TRP:CE3	1:O:918:TRP:HB2	2.52	0.45
1:P:815:HIS:CD2	1:P:815:HIS:H	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:138:GLN:HG3	1:A:172:ASP:OD2	2.16	0.45
1:A:151:HIS:HB3	1:A:153:TRP:CZ3	2.52	0.45
1:A:210:ARG:HH12	1:A:394:ASN:C	2.25	0.45
1:A:234:ASP:O	1:A:235:PHE:HB2	2.17	0.45
1:A:429:ASP:HA	1:A:430:PRO:HD3	1.68	0.45
1:A:654:TRP:NE1	1:A:666:GLY:HA3	2.32	0.45
1:B:279:ILE:HD11	1:C:422:PRO:HB2	1.99	0.45
1:C:249:GLU:CG	1:C:251:ARG:NH2	2.80	0.45
1:C:316:HIS:HB3	1:C:322:LEU:HA	1.99	0.45
1:C:954:ASP:CB	1:D:1013:ARG:NH2	2.80	0.45
1:C:1020:TRP:HD1	1:C:1021:CYS:N	2.14	0.45
1:D:229:THR:CG2	1:D:332:PHE:CE2	3.00	0.45
1:D:275:GLY:HA2	1:D:285:TYR:O	2.17	0.45
1:D:277:GLU:O	1:D:278:ILE:C	2.59	0.45
1:D:367:MET:HE2	1:D:372:MET:HG3	1.98	0.45
1:E:562:LEU:HD23	1:E:562:LEU:HA	1.83	0.45
1:E:742:THR:CG2	1:E:743:SER:N	2.79	0.45
1:E:742:THR:HG22	1:E:743:SER:N	2.31	0.45
1:E:927:THR:HG21	1:E:929:TYR:CZ	2.52	0.45
1:F:152:LEU:HD13	1:F:186:VAL:HG22	1.98	0.45
1:F:326:GLU:OE1	1:F:326:GLU:HA	2.16	0.45
1:G:129:VAL:CG2	1:G:182:ASN:ND2	2.78	0.45
1:G:372:MET:O	1:G:373:VAL:C	2.58	0.45
1:G:741:THR:O	1:G:741:THR:HG22	2.14	0.45
1:G:891:VAL:O	1:G:891:VAL:HG12	2.16	0.45
1:H:166:ARG:HD2	1:H:166:ARG:N	2.27	0.45
1:H:433:LEU:N	1:H:434:PRO:CD	2.80	0.45
1:H:606:LEU:HD13	1:H:617:LEU:CD1	2.46	0.45
1:I:861:SER:HB2	1:I:863:GLN:HG3	1.98	0.45
1:I:1006:GLU:HA	3:I:1275:HOH:O	2.16	0.45
1:J:263:GLY:O	1:J:265:THR:N	2.50	0.45
1:J:367:MET:HE1	1:J:371:THR:CG2	2.47	0.45
1:J:409:VAL:CG1	1:J:410:VAL:N	2.79	0.45
1:J:616:ALA:O	1:J:617:LEU:C	2.59	0.45
1:J:722:LEU:HA	1:J:722:LEU:HD23	1.63	0.45
1:K:18:ASN:HB3	1:K:21:VAL:HG23	1.98	0.45
1:K:84:VAL:HG12	1:K:85:VAL:O	2.16	0.45
1:K:355:ASN:HB2	1:K:568:TRP:CE3	2.52	0.45
1:K:382:ASN:HD22	1:K:617:LEU:HD21	1.76	0.45
1:K:390:SER:CB	1:K:391:HIS:ND1	2.80	0.45
1:K:772:ASP:OD1	1:K:772:ASP:N	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:777:LEU:HG	1:K:889:ALA:CA	2.46	0.45
1:L:55:ASN:HD21	1:L:211:ASP:HB3	1.81	0.45
1:L:128:ASN:ND2	1:L:180:GLY:CA	2.78	0.45
1:L:129:VAL:CG2	1:L:182:ASN:ND2	2.80	0.45
1:L:131:GLU:H	1:L:131:GLU:HG3	1.32	0.45
1:L:260:LEU:HD12	1:L:260:LEU:HA	1.87	0.45
1:L:572:ASP:OD1	1:L:603:MET:HG2	2.17	0.45
1:L:836:ILE:CG2	1:L:837:THR:N	2.79	0.45
1:L:937:LEU:CD1	1:L:990:HIS:CD2	2.99	0.45
1:M:301:TRP:HD1	1:M:307:ASN:O	2.00	0.45
1:M:390:SER:CB	1:M:391:HIS:CE1	2.99	0.45
1:N:155:ASN:ND2	1:N:182:ASN:OD1	2.50	0.45
1:O:69:VAL:HG13	1:O:70:PRO:HD2	1.99	0.45
1:O:91:GLN:HB3	1:O:98:PRO:CD	2.43	0.45
1:O:130:ASP:OD1	1:O:131:GLU:N	2.50	0.45
1:O:237:ARG:HG3	1:O:237:ARG:NH1	2.31	0.45
1:O:360:HIS:CG	1:O:361:PRO:HD2	2.51	0.45
1:P:84:VAL:CG1	1:P:85:VAL:H	2.29	0.45
1:P:99:ILE:HG22	1:P:100:TYR:H	1.82	0.45
1:P:106:PRO:HG3	1:P:204:ARG:HG3	1.98	0.45
1:P:130:ASP:O	1:P:131:GLU:C	2.59	0.45
1:P:261:TRP:HZ3	1:P:264:GLU:O	2.00	0.45
1:P:433:LEU:O	1:P:437:SER:HB2	2.16	0.45
1:P:492:ASP:HB3	1:P:499:ILE:HG23	1.98	0.45
1:P:790:ASP:HB2	3:P:1234:HOH:O	2.16	0.45
1:P:886:CYS:SG	1:P:888:LEU:CD2	3.05	0.45
1:P:898:LEU:HD23	1:P:898:LEU:C	2.41	0.45
1:P:906:TYR:HB2	1:P:993:ILE:HD13	1.98	0.45
1:A:190:ARG:HD3	1:A:191:TRP:CZ2	2.51	0.45
1:A:390:SER:CA	1:A:391:HIS:ND1	2.80	0.45
1:B:40:GLU:CG	1:B:43:ARG:NH1	2.80	0.45
1:B:600:GLN:HG3	1:B:600:GLN:H	1.14	0.45
1:B:668:VAL:HG13	1:B:669:PRO:HD2	1.99	0.45
1:B:777:LEU:HD12	1:B:888:LEU:C	2.42	0.45
1:C:460:ASN:HD21	1:C:461:GLU:HG3	1.74	0.45
1:C:526:LEU:HD23	1:C:526:LEU:HA	1.80	0.45
1:D:80:GLU:HG3	1:D:80:GLU:H	1.10	0.45
1:D:502:MET:HB2	1:D:537:GLU:HB2	1.99	0.45
1:E:60:PHE:CG	1:E:61:ALA:N	2.84	0.45
1:E:68:ALA:O	1:E:69:VAL:C	2.58	0.45
1:E:91:GLN:HG2	1:E:190:ARG:HH21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:141:ILE:CD1	1:E:143:PHE:CE1	3.00	0.45
1:E:400:THR:O	1:E:404:ARG:HB2	2.18	0.45
1:E:654:TRP:NE1	1:E:666:GLY:HA3	2.32	0.45
1:E:661:LYS:O	1:E:662:PRO:C	2.59	0.45
1:E:815:HIS:N	1:E:815:HIS:CD2	2.85	0.45
1:F:271:THR:CG2	1:F:272:ALA:N	2.80	0.45
1:F:859:ASP:O	1:F:861:SER:N	2.50	0.45
1:F:995:GLY:N	1:F:1002:SER:OG	2.29	0.45
1:G:83:THR:CG2	1:G:84:VAL:N	2.79	0.45
1:H:17:GLU:OE1	1:H:113:PHE:HD1	1.99	0.45
1:H:84:VAL:CG1	1:H:85:VAL:N	2.79	0.45
1:H:153:TRP:CD1	1:H:158:TRP:HA	2.51	0.45
1:H:487:GLU:HA	1:H:500:CYS:SG	2.56	0.45
1:H:683:PRO:HD2	1:H:685:LEU:HD21	1.99	0.45
1:H:685:LEU:CB	1:H:686:PRO:HD2	2.36	0.45
1:H:767:GLN:CG	1:H:768:MET:N	2.80	0.45
1:H:904:GLU:OE2	1:H:929:TYR:OH	2.29	0.45
1:H:904:GLU:HG2	1:H:909:ARG:HH22	1.81	0.45
1:J:210:ARG:NH1	1:J:395:HIS:CA	2.80	0.45
1:J:767:GLN:CG	1:J:768:MET:N	2.79	0.45
1:K:883:GLY:HA3	1:K:986:ILE:O	2.17	0.45
1:K:961:ARG:NE	1:K:978:ALA:HB1	2.32	0.45
1:L:360:HIS:ND1	1:L:363:HIS:N	2.64	0.45
1:L:490:GLY:O	1:L:491:ALA:HB3	2.16	0.45
1:M:23:GLN:O	1:M:24:LEU:HD23	2.17	0.45
1:M:111:PRO:CG	1:M:196:TYR:CE2	2.99	0.45
1:M:302:SER:O	1:M:305:ILE:N	2.50	0.45
1:M:349:LEU:HB3	1:M:351:ILE:CD1	2.47	0.45
1:M:409:VAL:CG1	1:M:410:VAL:N	2.80	0.45
1:M:654:TRP:HZ3	1:M:656:VAL:HG23	1.82	0.45
1:M:785:THR:HB	3:M:1245:HOH:O	2.16	0.45
1:M:810:TRP:CZ2	1:M:991:MET:CE	3.00	0.45
1:N:36:TRP:CE3	1:N:42:ALA:CB	3.00	0.45
1:O:6:SER:O	1:O:7:LEU:C	2.60	0.45
1:O:69:VAL:CG1	1:O:70:PRO:N	2.80	0.45
1:O:635:THR:HG21	1:O:681:GLU:HG3	1.99	0.45
1:O:900:LEU:HD23	1:O:900:LEU:HA	1.46	0.45
1:P:7:LEU:CD1	1:P:74:LEU:HG	2.46	0.45
1:P:433:LEU:N	1:P:434:PRO:HD2	2.32	0.45
1:A:43:ARG:HD2	1:A:261:TRP:CE2	2.52	0.44
1:A:369:GLU:HG3	1:A:397:LEU:CD2	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:400:THR:O	1:A:404:ARG:HG3	2.17	0.44
1:A:682:LEU:CB	1:A:683:PRO:HD2	2.46	0.44
1:B:505:ARG:NE	3:B:1251:HOH:O	2.30	0.44
1:C:941:THR:CG2	1:C:942:ARG:N	2.80	0.44
1:E:73:TRP:O	1:E:183:ARG:NH2	2.49	0.44
1:E:387:VAL:CG2	1:E:388:ARG:N	2.79	0.44
1:E:590:GLY:CA	1:E:597:ASN:ND2	2.80	0.44
1:F:7:LEU:HD11	1:F:74:LEU:HD21	1.99	0.44
1:F:409:VAL:CG1	1:F:410:VAL:N	2.80	0.44
1:F:499:ILE:HD11	1:F:529:GLU:CD	2.42	0.44
1:G:377:LEU:O	1:G:381:GLN:HB2	2.17	0.44
1:G:567:VAL:HG23	3:G:1214:HOH:O	2.17	0.44
1:G:588:TYR:N	1:G:591:ASP:OD2	2.42	0.44
1:G:1005:ALA:O	1:G:1007:PHE:N	2.50	0.44
1:H:3:ILE:O	1:H:6:SER:HB3	2.17	0.44
1:H:36:TRP:CD1	1:H:41:GLU:CB	2.99	0.44
1:H:36:TRP:CD2	1:H:42:ALA:CB	2.99	0.44
1:H:36:TRP:HD1	1:H:41:GLU:HB3	1.79	0.44
1:H:106:PRO:CG	1:H:204:ARG:HH11	2.30	0.44
1:H:110:ASN:O	1:H:113:PHE:HB2	2.17	0.44
1:H:123:TYR:HD1	1:H:123:TYR:H	1.64	0.44
1:H:515:VAL:N	1:H:516:PRO:CD	2.80	0.44
1:H:622:HIS:HD2	1:H:625:GLN:OE1	2.00	0.44
1:H:647:SER:HB2	1:H:650:GLU:HB2	1.98	0.44
1:J:44:THR:OG1	1:J:46:ARG:HG3	2.17	0.44
1:J:129:VAL:HG23	1:J:182:ASN:ND2	2.33	0.44
1:J:559:TYR:N	1:J:559:TYR:CD1	2.85	0.44
1:J:653:HIS:HE2	1:J:667:GLU:CD	2.25	0.44
1:K:18:ASN:ND2	1:K:21:VAL:CG2	2.80	0.44
1:K:643:LEU:C	1:K:674:PRO:HB3	2.42	0.44
1:K:839:ALA:HA	1:K:852:SER:O	2.17	0.44
1:L:36:TRP:CD1	1:L:41:GLU:CB	3.00	0.44
1:L:210:ARG:NH1	1:L:395:HIS:CA	2.79	0.44
1:L:807:VAL:CG1	1:L:808:GLU:N	2.79	0.44
1:L:897:TRP:CD1	1:L:941:THR:CG2	2.99	0.44
1:L:934:GLU:CG	1:L:935:ASN:N	2.79	0.44
1:M:187:MET:HG2	1:M:187:MET:O	2.13	0.44
1:M:261:TRP:HZ3	1:M:264:GLU:O	2.00	0.44
1:M:395:HIS:HA	1:M:396:PRO:HD3	1.70	0.44
1:M:542:MET:HE2	1:M:600:GLN:NE2	2.32	0.44
1:M:786:ARG:CZ	1:M:789:LEU:HD11	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:989:PHE:CE2	1:M:1014:TYR:HB3	2.52	0.44
1:N:36:TRP:CD2	1:N:42:ALA:CB	3.01	0.44
1:N:245:GLN:HG2	1:N:288:ARG:CG	2.37	0.44
1:N:424:ASN:HD21	1:N:464:HIS:C	2.24	0.44
1:N:455:ILE:CG2	1:N:485:GLN:HG2	2.48	0.44
1:N:713:HIS:NE2	3:N:1259:HOH:O	2.36	0.44
1:N:807:VAL:CG1	1:N:808:GLU:N	2.79	0.44
1:O:536:CYS:O	1:O:537:GLU:HG3	2.17	0.44
1:O:937:LEU:HD12	1:O:957:PHE:O	2.18	0.44
1:P:331:GLY:HA2	3:P:1212:HOH:O	2.16	0.44
1:P:386:ALA:C	1:P:387:VAL:HG12	2.41	0.44
1:P:502:MET:HB2	1:P:537:GLU:HB2	1.98	0.44
1:P:612:THR:HA	1:P:613:PRO:HD3	1.79	0.44
1:P:787:ALA:O	1:P:933:SER:HB2	2.17	0.44
1:A:73:TRP:HA	1:A:76:CYS:O	2.17	0.44
1:A:232:ASN:ND2	1:A:237:ARG:HG2	2.32	0.44
1:A:316:HIS:HB2	1:A:321:THR:O	2.17	0.44
1:A:412:GLU:HB2	1:A:457:SER:HB3	1.98	0.44
1:A:548:GLY:O	1:A:549:PHE:C	2.59	0.44
1:A:557:ARG:CZ	1:A:628:GLN:NE2	2.80	0.44
1:A:743:SER:O	1:A:744:GLU:C	2.56	0.44
1:B:422:PRO:HB3	1:C:279:ILE:HD11	1.99	0.44
1:B:425:ARG:HH11	1:B:425:ARG:HD2	1.59	0.44
1:B:685:LEU:CB	1:B:686:PRO:HD2	2.40	0.44
1:C:40:GLU:CG	1:C:43:ARG:NH1	2.79	0.44
1:C:123:TYR:CD1	1:C:123:TYR:N	2.84	0.44
1:C:770:ILE:HD13	1:C:1022:GLN:HG2	1.99	0.44
1:D:42:ALA:O	1:D:310:ARG:NH1	2.51	0.44
1:D:378:LEU:HD23	1:D:378:LEU:HA	1.79	0.44
1:D:595:THR:CG2	1:D:596:PRO:HA	2.48	0.44
1:D:722:LEU:HA	1:D:722:LEU:HD23	1.68	0.44
1:D:782:ASP:HB2	1:D:842:TRP:CZ2	2.52	0.44
1:D:1020:TRP:CD1	1:D:1021:CYS:N	2.82	0.44
1:E:5:ASP:OD2	1:E:157:ARG:HB3	2.17	0.44
1:E:27:LEU:N	1:E:27:LEU:CD2	2.79	0.44
1:E:84:VAL:CG1	1:E:85:VAL:N	2.79	0.44
1:E:225:PHE:HA	1:E:243:GLU:O	2.17	0.44
1:E:621:LYS:HE2	1:E:717:TRP:HZ3	1.83	0.44
1:E:957:PHE:CD1	1:E:957:PHE:C	2.95	0.44
1:E:958:ASN:OD1	1:E:958:ASN:O	2.35	0.44
1:F:79:PRO:HD2	1:F:80:GLU:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:84:VAL:CG1	1:F:85:VAL:N	2.80	0.44
1:F:98:PRO:C	1:F:99:ILE:HG13	2.41	0.44
1:F:376:ILE:O	1:F:377:LEU:C	2.59	0.44
1:F:861:SER:CB	1:F:863:GLN:HG3	2.47	0.44
1:G:590:GLY:C	1:G:592:PHE:H	2.25	0.44
1:H:85:VAL:CG1	1:H:86:VAL:N	2.79	0.44
1:H:177:LEU:HD22	1:H:177:LEU:HA	1.71	0.44
1:H:393:PRO:HD3	1:H:412:GLU:O	2.16	0.44
1:H:473:ARG:O	1:H:474:TRP:C	2.58	0.44
1:H:807:VAL:CG1	1:H:808:GLU:N	2.80	0.44
1:I:894:ARG:C	1:I:895:VAL:HG23	2.41	0.44
1:J:14:ARG:NH1	1:J:16:TRP:CZ2	2.85	0.44
1:J:479:ASP:O	1:J:480:PRO:C	2.58	0.44
1:J:531:ARG:HB3	1:J:532:PRO:HD2	1.99	0.44
1:J:581:ASN:HB3	1:J:583:ASN:HD22	1.82	0.44
1:J:882:ILE:HG22	1:J:882:ILE:O	2.15	0.44
1:K:267:VAL:O	1:K:268:ALA:HB2	2.17	0.44
1:K:894:ARG:HH12	1:K:920:LEU:CA	2.30	0.44
1:K:900:LEU:HD12	1:K:939:CYS:HB2	1.99	0.44
1:L:161:TYR:CD2	1:L:162:GLY:N	2.86	0.44
1:L:442:ARG:HD3	3:L:1250:HOH:O	2.17	0.44
1:M:158:TRP:CZ2	1:M:160:GLY:CA	3.00	0.44
1:M:423:MET:HG2	1:P:282:ARG:HG3	1.99	0.44
1:M:904:GLU:HG3	1:M:906:TYR:HE1	1.82	0.44
1:M:927:THR:HG21	1:M:929:TYR:CZ	2.53	0.44
1:N:35:SER:HB3	1:N:50:GLN:CB	2.47	0.44
1:N:129:VAL:CG2	1:N:182:ASN:ND2	2.80	0.44
1:N:377:LEU:HD23	1:N:708:TRP:CB	2.48	0.44
1:O:287:ASP:N	1:O:287:ASP:OD1	2.37	0.44
1:O:814:GLY:O	1:O:815:HIS:C	2.60	0.44
1:P:127:PHE:CE1	1:P:184:LEU:HD12	2.53	0.44
1:P:321:THR:O	1:P:323:ILE:HD12	2.16	0.44
1:P:409:VAL:CG1	1:P:410:VAL:N	2.79	0.44
1:P:456:TRP:NE1	1:P:482:ARG:CG	2.80	0.44
1:P:587:ALA:HB1	1:P:591:ASP:OD2	2.18	0.44
1:P:840:HIS:HE1	3:P:1232:HOH:O	1.98	0.44
1:A:91:GLN:HB3	1:A:98:PRO:HD3	1.98	0.44
1:A:630:ARG:HE	1:A:630:ARG:HB3	1.43	0.44
1:A:956:GLN:O	1:A:987:ASP:N	2.45	0.44
1:B:246:MET:HB3	1:B:274:PHE:CZ	2.52	0.44
1:B:651:LEU:HD12	1:B:668:VAL:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:655:MET:O	1:B:696:LEU:HD12	2.18	0.44
1:C:397:LEU:O	1:C:398:TRP:C	2.58	0.44
1:C:536:CYS:O	1:C:537:GLU:HG3	2.17	0.44
1:C:764:PHE:CE1	1:C:781:ARG:HB3	2.52	0.44
1:C:906:TYR:OH	1:C:935:ASN:HA	2.17	0.44
1:D:661:LYS:HA	1:D:662:PRO:HD2	1.75	0.44
1:E:91:GLN:HB3	1:E:96:ASP:O	2.18	0.44
1:E:260:LEU:HD12	1:E:260:LEU:HA	1.47	0.44
1:E:317:THR:O	1:E:319:ASP:N	2.51	0.44
1:E:323:ILE:HD12	1:E:323:ILE:N	2.31	0.44
1:E:589:GLY:C	1:E:597:ASN:HD22	2.25	0.44
1:E:870:VAL:CG1	1:E:871:GLU:N	2.80	0.44
1:F:24:LEU:CB	1:F:161:TYR:HB3	2.48	0.44
1:F:356:ARG:O	1:F:356:ARG:HG2	2.17	0.44
1:F:437:SER:O	1:F:441:THR:HG23	2.18	0.44
1:F:636:ILE:N	1:F:680:ILE:O	2.46	0.44
1:F:878:HIS:N	1:F:878:HIS:ND1	2.65	0.44
1:G:234:ASP:OD1	1:G:234:ASP:N	2.50	0.44
1:G:471:LEU:O	1:G:475:ILE:HG13	2.18	0.44
1:H:400:THR:CG2	1:H:404:ARG:NH1	2.81	0.44
1:H:701:VAL:HG12	1:H:702:GLN:N	2.32	0.44
1:I:352:ARG:CZ	1:I:626:PHE:CE1	2.99	0.44
1:I:837:THR:O	1:I:837:THR:HG22	2.17	0.44
1:J:84:VAL:CG1	1:J:85:VAL:N	2.79	0.44
1:J:91:GLN:OE1	1:J:91:GLN:N	2.50	0.44
1:J:167:LEU:HA	1:J:168:PRO:HD3	1.79	0.44
1:K:129:VAL:HG23	1:K:182:ASN:HD21	1.82	0.44
1:K:205:MET:HE1	1:K:364:GLY:HA2	1.97	0.44
1:K:261:TRP:CH2	1:K:266:GLN:HB2	2.53	0.44
1:K:338:GLU:N	1:K:341:LEU:O	2.51	0.44
1:K:600:GLN:HE21	1:K:600:GLN:HB2	1.19	0.44
1:K:634:GLN:O	1:K:682:LEU:HD12	2.17	0.44
1:K:742:THR:CG2	1:K:743:SER:N	2.81	0.44
1:K:945:ASN:OD1	1:K:950:GLN:HB2	2.17	0.44
1:K:1020:TRP:HD1	1:K:1021:CYS:H	1.65	0.44
1:L:151:HIS:HB3	1:L:153:TRP:CZ3	2.53	0.44
1:L:356:ARG:O	1:L:356:ARG:HG2	2.15	0.44
1:L:594:ASP:O	1:L:597:ASN:HB3	2.18	0.44
1:M:152:LEU:CD1	1:M:153:TRP:N	2.79	0.44
1:M:607:VAL:HG12	1:M:613:PRO:CA	2.46	0.44
1:N:239:VAL:HG12	1:N:240:LEU:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:699:ARG:CZ	1:N:714:ILE:HD11	2.47	0.44
1:O:100:TYR:CE2	1:O:602:CYS:CB	3.00	0.44
1:O:102:ASN:HD22	1:O:102:ASN:C	2.25	0.44
1:O:509:ASP:C	1:O:511:PRO:HD3	2.42	0.44
1:O:524:LEU:HD11	1:O:562:LEU:HD21	1.99	0.44
1:O:657:ALA:HB2	1:O:662:PRO:HA	1.99	0.44
1:O:657:ALA:HB1	1:O:661:LYS:C	2.41	0.44
1:P:36:TRP:CD2	1:P:42:ALA:CB	3.00	0.44
1:P:261:TRP:CZ3	1:P:266:GLN:CB	3.00	0.44
1:A:165:SER:O	1:A:209:PHE:HZ	2.00	0.44
1:A:397:LEU:HD12	1:A:397:LEU:HA	1.75	0.44
1:A:830:LEU:O	1:A:831:ALA:C	2.57	0.44
1:B:18:ASN:N	1:B:193:ASP:OD2	2.42	0.44
1:B:490:GLY:O	1:B:491:ALA:HB3	2.17	0.44
1:C:473:ARG:HD2	1:C:473:ARG:O	2.17	0.44
1:D:287:ASP:OD1	1:D:287:ASP:N	2.32	0.44
1:D:400:THR:O	1:D:404:ARG:HD2	2.18	0.44
1:D:529:GLU:OE1	1:D:530:THR:N	2.51	0.44
1:E:12:GLN:OE1	1:E:12:GLN:HA	2.17	0.44
1:E:15:ASP:CB	1:E:161:TYR:CE2	3.00	0.44
1:E:69:VAL:CG1	1:E:70:PRO:N	2.80	0.44
1:E:188:VAL:CG2	1:E:208:ILE:HD11	2.47	0.44
1:E:778:THR:HG22	1:E:886:CYS:HA	1.98	0.44
1:E:949:HIS:ND1	1:E:949:HIS:N	2.66	0.44
1:F:13:ARG:H	1:F:13:ARG:HG3	1.65	0.44
1:F:36:TRP:CB	1:F:42:ALA:HB2	2.48	0.44
1:F:86:VAL:CG1	1:F:87:PRO:HA	2.44	0.44
1:F:223:SER:O	1:F:224:ASP:HB2	2.17	0.44
1:F:673:ALA:O	1:F:676:GLY:N	2.50	0.44
1:F:767:GLN:CG	1:F:768:MET:N	2.79	0.44
1:G:158:TRP:CD1	1:G:159:VAL:N	2.85	0.44
1:G:573:GLN:NE2	3:G:1255:HOH:O	2.49	0.44
1:G:658:LEU:HD12	1:G:659:ASP:H	1.82	0.44
1:G:870:VAL:CG1	1:G:871:GLU:N	2.81	0.44
1:H:1004:SER:HG	1:H:1006:GLU:CD	2.24	0.44
1:I:107:ILE:HG23	1:I:107:ILE:HD13	1.75	0.44
1:I:356:ARG:O	1:I:356:ARG:HG2	2.16	0.44
1:I:380:LYS:HE3	1:I:406:GLY:O	2.17	0.44
1:I:904:GLU:HG2	1:I:909:ARG:NH2	2.29	0.44
1:J:422:PRO:HG2	1:K:279:ILE:CD1	2.48	0.44
1:J:749:ILE:O	1:J:755:ARG:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:19:PRO:HA	3:K:1222:HOH:O	2.17	0.44
1:K:125:LEU:CD1	1:K:126:THR:N	2.79	0.44
1:K:337:ILE:O	1:K:337:ILE:HG22	2.17	0.44
1:K:354:VAL:HG22	1:K:355:ASN:N	2.31	0.44
1:K:619:GLU:OE1	1:K:619:GLU:HA	2.17	0.44
1:K:706:THR:HG23	3:K:1251:HOH:O	2.18	0.44
1:K:932:PRO:HG2	1:K:970:THR:O	2.18	0.44
1:K:961:ARG:HB3	1:K:978:ALA:HB1	1.99	0.44
1:L:40:GLU:CD	1:L:43:ARG:HH12	2.25	0.44
1:L:499:ILE:HG13	1:L:532:PRO:O	2.18	0.44
1:L:571:VAL:HG21	1:L:611:ARG:NH2	2.33	0.44
1:L:654:TRP:CE3	1:L:655:MET:N	2.86	0.44
1:L:778:THR:C	1:L:779:PRO:O	2.60	0.44
1:L:813:ALA:CB	1:L:815:HIS:CD2	3.00	0.44
1:L:908:ASP:OD1	1:L:908:ASP:N	2.48	0.44
1:L:1000:SER:O	1:L:1001:PRO:C	2.56	0.44
1:M:246:MET:CG	1:M:274:PHE:CE2	3.01	0.44
1:M:303:ALA:HB1	1:M:406:GLY:O	2.18	0.44
1:M:356:ARG:NH1	1:M:356:ARG:CG	2.80	0.44
1:M:583:ASN:ND2	1:M:583:ASN:N	2.65	0.44
1:M:635:THR:HG23	1:M:681:GLU:HG3	2.00	0.44
1:M:652:LEU:HB3	1:M:668:VAL:O	2.17	0.44
1:M:842:TRP:CZ3	1:M:852:SER:HB3	2.52	0.44
1:M:870:VAL:CG1	1:M:871:GLU:N	2.79	0.44
1:M:897:TRP:HD1	1:M:941:THR:HG23	1.82	0.44
1:N:509:ASP:C	1:N:511:PRO:HD3	2.42	0.44
1:N:902:PRO:HG3	1:N:918:TRP:CZ3	2.53	0.44
1:O:176:PHE:N	1:O:176:PHE:CD1	2.84	0.44
1:O:237:ARG:CG	1:O:237:ARG:HH11	2.31	0.44
1:O:370:GLN:O	1:O:373:VAL:HG23	2.17	0.44
1:O:878:HIS:NE2	1:O:1010:SER:CB	2.81	0.44
1:P:14:ARG:NH1	1:P:16:TRP:CZ2	2.78	0.44
1:P:55:ASN:HB3	1:P:86:VAL:O	2.17	0.44
1:P:159:VAL:HG11	1:P:173:LEU:CD2	2.47	0.44
1:P:227:VAL:CG1	1:P:228:ALA:N	2.79	0.44
1:P:708:TRP:CD1	1:P:708:TRP:H	2.34	0.44
1:P:895:VAL:HG12	1:P:896:ASN:N	2.30	0.44
1:A:202:MET:CE	1:A:357:HIS:CD2	2.98	0.44
1:A:285:TYR:CB	1:A:288:ARG:HB2	2.46	0.44
1:A:627:PHE:C	1:A:628:GLN:HG2	2.41	0.44
1:A:937:LEU:HG	1:A:938:ARG:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:944:LEU:O	1:A:950:GLN:HA	2.17	0.44
1:B:40:GLU:O	1:B:43:ARG:N	2.51	0.44
1:B:214:LEU:HD22	1:B:214:LEU:HA	1.88	0.44
1:B:360:HIS:HE1	1:B:362:LEU:HB2	1.82	0.44
1:B:937:LEU:C	1:B:938:ARG:HG2	2.42	0.44
1:B:941:THR:HG22	1:B:942:ARG:N	2.32	0.44
1:C:575:LEU:O	1:C:586:SER:HA	2.17	0.44
1:D:274:PHE:HB3	1:D:286:ALA:O	2.18	0.44
1:E:28:ALA:O	1:E:30:HIS:HD2	2.01	0.44
1:E:103:VAL:O	1:E:104:THR:C	2.61	0.44
1:E:540:HIS:HD2	1:E:568:TRP:HD1	1.65	0.44
1:E:844:HIS:ND1	1:E:845:GLN:HG3	2.32	0.44
1:E:883:GLY:HA3	1:E:987:ASP:HA	1.98	0.44
1:F:166:ARG:HG3	1:F:392:TYR:CB	2.46	0.44
1:F:353:GLY:C	1:F:566:PHE:HA	2.42	0.44
1:F:387:VAL:HG22	1:F:388:ARG:N	2.32	0.44
1:F:579:ASP:CG	1:F:583:ASN:HB2	2.42	0.44
1:F:747:PHE:CZ	1:F:760:ARG:CD	3.01	0.44
1:G:301:TRP:CE3	1:G:333:ARG:HG2	2.53	0.44
1:G:324:GLU:HG3	1:G:325:ALA:N	2.32	0.44
1:G:756:TRP:HE1	1:G:768:MET:CE	2.30	0.44
1:H:114:VAL:CG1	1:H:115:PRO:N	2.80	0.44
1:H:556:PHE:CD2	1:H:564:GLY:HA2	2.53	0.44
1:J:394:ASN:HB3	1:J:395:HIS:H	1.62	0.44
1:J:577:LYS:O	1:J:585:TRP:N	2.48	0.44
1:J:651:LEU:HD12	1:J:652:LEU:N	2.33	0.44
1:K:129:VAL:CG2	1:K:182:ASN:ND2	2.81	0.44
1:K:378:LEU:HB2	1:K:570:TRP:CZ2	2.52	0.44
1:K:473:ARG:O	1:K:476:LYS:HB2	2.18	0.44
1:K:832:ASP:O	1:K:833:ALA:HB2	2.17	0.44
1:L:84:VAL:CG1	1:L:85:VAL:N	2.79	0.44
1:L:173:LEU:HD23	1:L:173:LEU:HA	1.61	0.44
1:L:195:SER:O	1:L:196:TYR:C	2.61	0.44
1:L:950:GLN:HE21	1:L:950:GLN:HB2	1.56	0.44
1:M:36:TRP:CZ2	1:M:42:ALA:HA	2.53	0.44
1:M:69:VAL:HA	1:M:70:PRO:HD3	1.88	0.44
1:M:147:ASN:HA	1:M:148:SER:HA	1.62	0.44
1:M:251:ARG:O	1:M:252:ASP:C	2.61	0.44
1:M:422:PRO:HG3	1:P:284:GLY:C	2.42	0.44
1:M:443:MET:O	1:M:447:ASP:N	2.37	0.44
1:M:747:PHE:CD2	1:M:827:ALA:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:6:SER:O	1:N:9:VAL:N	2.49	0.44
1:N:154:CYS:O	1:N:155:ASN:C	2.59	0.44
1:N:282:ARG:O	1:O:421:VAL:HG13	2.18	0.44
1:N:473:ARG:HD3	1:N:473:ARG:O	2.18	0.44
1:O:18:ASN:N	1:O:193:ASP:OD2	2.50	0.44
1:O:635:THR:HG23	1:O:681:GLU:CA	2.45	0.44
1:O:696:LEU:O	1:O:719:GLN:HA	2.17	0.44
1:P:18:ASN:O	1:P:21:VAL:O	2.35	0.44
1:P:272:ALA:HA	1:P:273:PRO:HD3	1.64	0.44
1:P:361:PRO:HB3	1:P:609:ALA:HB1	1.99	0.44
1:P:383:ASN:ND2	3:P:1246:HOH:O	2.47	0.44
1:P:499:ILE:HG13	1:P:532:PRO:O	2.17	0.44
1:P:647:SER:HB2	1:P:650:GLU:HB2	1.99	0.44
1:P:767:GLN:HG3	1:P:768:MET:N	2.32	0.44
1:P:856:TYR:CD1	1:P:856:TYR:N	2.85	0.44
1:A:217:LYS:NZ	1:A:324:GLU:OE2	2.30	0.44
1:A:653:HIS:CD2	1:A:667:GLU:CB	2.99	0.44
1:B:418:HIS:O	1:C:282:ARG:HD2	2.17	0.44
1:B:454:ILE:C	1:B:455:ILE:HG12	2.42	0.44
1:C:102:ASN:N	1:C:598:ASP:OD2	2.51	0.44
1:C:249:GLU:CB	1:C:251:ARG:NH1	2.79	0.44
1:D:344:LEU:O	1:D:345:ASN:C	2.60	0.44
1:E:140:ARG:HG2	1:E:141:ILE:N	2.33	0.44
1:E:366:VAL:HG12	1:E:367:MET:N	2.33	0.44
1:E:408:TYR:HB3	1:E:454:ILE:CD1	2.47	0.44
1:E:409:VAL:CG1	1:E:410:VAL:N	2.80	0.44
1:E:443:MET:CE	1:E:456:TRP:CE3	2.98	0.44
1:E:747:PHE:HB2	1:E:758:PHE:HB2	2.00	0.44
1:E:903:GLN:O	1:E:904:GLU:C	2.61	0.44
1:F:89:ASN:ND2	1:F:205:MET:HB3	2.33	0.44
1:F:352:ARG:O	1:F:385:ASN:HB2	2.18	0.44
1:F:850:PHE:HD1	1:F:872:VAL:HG13	1.83	0.44
1:F:966:GLN:OE1	1:F:977:HIS:N	2.42	0.44
1:G:226:HIS:CD2	1:G:226:HIS:N	2.84	0.44
1:G:350:LEU:HD12	1:G:351:ILE:H	1.83	0.44
1:G:856:TYR:CD2	1:G:864:MET:CE	2.99	0.44
1:G:895:VAL:O	1:G:919:ASP:HA	2.18	0.44
1:G:906:TYR:C	1:G:910:LEU:HD23	2.41	0.44
1:H:39:SER:O	1:H:40:GLU:C	2.60	0.44
1:H:303:ALA:HB1	1:H:406:GLY:O	2.18	0.44
1:H:409:VAL:CG1	1:H:410:VAL:N	2.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:460:ASN:ND2	1:H:461:GLU:HG3	2.33	0.44
1:H:806:TRP:CZ3	1:H:809:ARG:NH2	2.85	0.44
1:I:240:LEU:HD12	1:I:240:LEU:C	2.41	0.44
1:I:658:LEU:O	1:I:661:LYS:N	2.46	0.44
1:K:232:ASN:O	1:K:234:ASP:N	2.51	0.44
1:K:764:PHE:O	1:K:766:SER:N	2.51	0.44
1:L:11:LEU:N	1:L:11:LEU:HD23	2.33	0.44
1:L:454:ILE:HG13	1:L:455:ILE:HG13	1.99	0.44
1:L:726:LEU:HD23	1:L:726:LEU:HA	1.86	0.44
1:M:24:LEU:O	1:M:25:ASN:C	2.60	0.44
1:M:110:ASN:N	1:M:111:PRO:CD	2.80	0.44
1:M:260:LEU:HD12	1:M:260:LEU:HA	1.49	0.44
1:M:653:HIS:CD2	1:M:667:GLU:CB	3.00	0.44
1:M:698:VAL:HG22	1:M:718:GLN:O	2.18	0.44
1:N:370:GLN:O	1:N:371:THR:O	2.34	0.44
1:O:214:LEU:HA	1:O:214:LEU:HD23	1.67	0.44
1:O:441:THR:HG22	1:O:474:TRP:CH2	2.52	0.44
1:O:873:ALA:O	1:O:876:THR:HG22	2.17	0.44
1:P:128:ASN:HA	1:P:180:GLY:C	2.42	0.44
1:P:229:THR:CG2	1:P:332:PHE:CE2	3.01	0.44
1:P:345:ASN:N	1:P:345:ASN:OD1	2.50	0.44
1:P:475:ILE:O	1:P:479:ASP:O	2.36	0.44
1:P:531:ARG:O	1:P:561:ARG:NH1	2.30	0.44
1:A:14:ARG:HH11	1:A:14:ARG:HG3	1.81	0.44
1:A:99:ILE:HG22	1:A:100:TYR:N	2.33	0.44
1:A:237:ARG:HD2	1:A:296:GLU:HG2	1.99	0.44
1:A:349:LEU:HD13	1:A:351:ILE:CD1	2.48	0.44
1:A:376:ILE:HD13	1:A:376:ILE:HG21	1.75	0.44
1:B:513:PRO:C	1:B:515:VAL:H	2.25	0.44
1:B:612:THR:HA	1:B:613:PRO:HD3	1.83	0.44
1:B:868:VAL:HB	1:B:1016:TYR:CD1	2.52	0.44
1:B:925:MET:HE3	1:B:925:MET:HB3	1.80	0.44
1:C:429:ASP:HA	1:C:430:PRO:HD3	1.88	0.44
1:C:612:THR:HA	1:C:613:PRO:HD3	1.78	0.44
1:D:91:GLN:C	1:D:93:HIS:H	2.25	0.44
1:D:396:PRO:O	1:D:397:LEU:C	2.59	0.44
1:D:499:ILE:HG21	1:D:533:LEU:HD22	1.98	0.44
1:E:34:ALA:CB	1:E:36:TRP:CZ3	2.98	0.44
1:E:114:VAL:HG22	1:E:191:TRP:CB	2.46	0.44
1:E:161:TYR:CD1	1:E:162:GLY:N	2.76	0.44
1:E:262:GLN:HG2	1:E:262:GLN:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:409:VAL:HG12	1:E:410:VAL:N	2.31	0.44
1:F:418:HIS:O	1:G:282:ARG:HD3	2.17	0.44
1:F:502:MET:CB	1:F:537:GLU:HB2	2.47	0.44
1:F:570:TRP:CD1	1:F:571:VAL:HG22	2.52	0.44
1:F:749:ILE:HG22	1:F:750:GLU:N	2.32	0.44
1:F:824:GLN:O	1:F:838:THR:HA	2.18	0.44
1:F:833:ALA:HB1	1:F:858:ILE:O	2.17	0.44
1:F:866:ILE:HG22	1:F:867:THR:N	2.32	0.44
1:G:36:TRP:CE3	1:G:42:ALA:HB2	2.52	0.44
1:G:92:MET:O	1:G:93:HIS:HD2	2.01	0.44
1:G:765:LEU:O	1:G:765:LEU:HG	2.17	0.44
1:H:232:ASN:ND2	1:H:234:ASP:OD1	2.50	0.44
1:H:377:LEU:HD22	1:H:708:TRP:HA	1.98	0.44
1:H:390:SER:CA	1:H:391:HIS:ND1	2.78	0.44
1:H:420:MET:CA	1:H:420:MET:HE3	2.48	0.44
1:I:66:PRO:O	1:I:69:VAL:HG23	2.17	0.44
1:I:129:VAL:CG2	1:I:182:ASN:HD22	2.29	0.44
1:I:500:CYS:HA	1:I:534:ILE:O	2.17	0.44
1:I:509:ASP:C	1:I:511:PRO:HD3	2.42	0.44
1:J:147:ASN:HA	1:J:148:SER:HA	1.57	0.44
1:K:377:LEU:CD2	1:K:708:TRP:HA	2.47	0.44
1:K:420:MET:C	1:K:421:VAL:HG23	2.43	0.44
1:L:211:ASP:OD1	1:L:211:ASP:N	2.45	0.44
1:L:232:ASN:ND2	1:L:234:ASP:OD1	2.50	0.44
1:L:292:ARG:HG3	1:L:292:ARG:NH1	2.32	0.44
1:L:590:GLY:C	1:L:592:PHE:H	2.26	0.44
1:L:685:LEU:HA	1:L:686:PRO:HD3	1.59	0.44
1:L:895:VAL:CG1	1:L:896:ASN:N	2.80	0.44
1:M:67:GLU:H	1:M:67:GLU:HG2	1.02	0.44
1:M:69:VAL:HG21	1:M:122:CYS:SG	2.57	0.44
1:M:73:TRP:HZ2	1:M:123:TYR:O	2.01	0.44
1:M:167:LEU:HB3	1:M:168:PRO:HD2	1.98	0.44
1:M:313:VAL:HG12	1:M:313:VAL:O	2.18	0.44
1:M:353:GLY:O	1:M:567:VAL:N	2.47	0.44
1:M:387:VAL:C	1:M:566:PHE:HE2	2.26	0.44
1:M:822:LEU:HD12	1:M:823:LEU:H	1.80	0.44
1:N:36:TRP:CD2	1:N:42:ALA:HA	2.53	0.44
1:N:70:PRO:HB2	1:N:72:SER:OG	2.17	0.44
1:N:127:PHE:CE1	1:N:184:LEU:CD1	3.01	0.44
1:N:571:VAL:HG22	1:N:609:ALA:HA	1.97	0.44
1:N:881:ARG:HD3	1:N:987:ASP:OD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:65:ALA:HB1	1:P:66:PRO:HD2	1.98	0.44
1:P:198:GLU:CG	1:P:439:ARG:HH12	2.30	0.44
1:P:423:MET:O	1:P:462:SER:O	2.35	0.44
1:P:529:GLU:HG2	3:P:1266:HOH:O	2.18	0.44
1:P:901:GLY:H	1:P:918:TRP:NE1	2.16	0.44
1:P:931:PHE:C	1:P:931:PHE:CD1	2.96	0.44
1:A:11:LEU:HD13	1:A:187:MET:HE1	1.99	0.44
1:A:84:VAL:CG1	1:A:85:VAL:N	2.81	0.44
1:A:190:ARG:CD	1:A:191:TRP:CZ2	3.00	0.44
1:A:429:ASP:OD1	1:A:430:PRO:HD2	2.18	0.44
1:A:533:LEU:C	1:A:534:ILE:HG13	2.43	0.44
1:A:702:GLN:O	1:A:703:PRO:C	2.58	0.44
1:A:844:HIS:CE1	1:A:845:GLN:CG	3.01	0.44
1:A:959:ILE:O	1:A:959:ILE:HG23	2.17	0.44
1:B:37:ARG:HG3	1:B:50:GLN:NE2	2.33	0.44
1:B:78:LEU:HB3	1:B:79:PRO:HD2	2.00	0.44
1:B:255:ARG:HB3	1:B:316:HIS:CE1	2.53	0.44
1:B:372:MET:CE	1:B:395:HIS:HB3	2.47	0.44
1:B:534:ILE:HD13	1:B:534:ILE:HG21	1.76	0.44
1:B:679:LEU:HA	1:B:679:LEU:HD23	1.55	0.44
1:C:740:LEU:CD1	1:C:749:ILE:HD11	2.47	0.44
1:C:780:LEU:HA	1:C:886:CYS:HB3	1.99	0.44
1:D:100:TYR:CE2	1:D:598:ASP:HB2	2.52	0.44
1:D:118:ASN:HA	1:D:119:PRO:HD2	1.78	0.44
1:D:627:PHE:O	1:D:628:GLN:HG2	2.18	0.44
1:E:35:SER:HB3	1:E:50:GLN:HB2	2.00	0.44
1:E:367:MET:O	1:E:368:ASP:HB3	2.17	0.44
1:E:843:GLN:HA	1:E:847:LYS:O	2.17	0.44
1:E:959:ILE:H	1:E:959:ILE:HG22	1.50	0.44
1:F:152:LEU:HD12	1:F:152:LEU:HA	1.59	0.44
1:F:657:ALA:HB2	1:F:662:PRO:HA	1.98	0.44
1:F:936:GLY:O	1:F:937:LEU:C	2.57	0.44
1:F:996:ASP:O	1:F:997:ASP:HB3	2.17	0.44
1:G:43:ARG:NH2	1:G:264:GLU:OE2	2.48	0.44
1:G:322:LEU:CD2	1:G:324:GLU:N	2.80	0.44
1:H:36:TRP:CD2	1:H:42:ALA:HA	2.52	0.44
1:H:99:ILE:HG22	1:H:100:TYR:N	2.32	0.44
1:H:257:THR:CG2	1:H:258:VAL:N	2.80	0.44
1:H:360:HIS:CE1	1:H:361:PRO:HD2	2.52	0.44
1:H:376:ILE:CD1	1:H:398:TRP:CZ3	3.01	0.44
1:H:959:ILE:CG1	1:H:984:LEU:HD12	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:63:PHE:CB	1:I:64:PRO:HD2	2.35	0.44
1:I:94:GLY:O	1:I:95:TYR:C	2.60	0.44
1:I:354:VAL:HG12	1:I:379:MET:HE2	1.99	0.44
1:I:518:TRP:CE3	1:I:522:LYS:HE2	2.53	0.44
1:I:763:GLY:HA3	1:I:822:LEU:CD2	2.47	0.44
1:J:310:ARG:HH11	1:J:310:ARG:HD3	1.70	0.44
1:J:505:ARG:HG3	1:J:510:GLN:HE21	1.80	0.44
1:J:813:ALA:CB	1:J:815:HIS:CD2	3.01	0.44
1:K:40:GLU:O	1:K:43:ARG:N	2.50	0.44
1:K:344:LEU:HD23	1:K:344:LEU:C	2.43	0.44
1:K:372:MET:HG2	1:K:398:TRP:HE3	1.82	0.44
1:K:486:TYR:N	1:K:496:THR:OG1	2.45	0.44
1:K:546:LEU:HD21	1:K:549:PHE:CG	2.52	0.44
1:K:635:THR:CG2	1:K:636:ILE:N	2.81	0.44
1:K:978:ALA:O	1:K:979:GLU:O	2.36	0.44
1:L:393:PRO:HD2	1:L:414:ASN:HB2	1.99	0.44
1:L:646:HIS:CD2	1:L:647:SER:N	2.86	0.44
1:L:790:ASP:HA	1:L:793:ILE:HD12	1.98	0.44
1:L:1018:LEU:CD2	1:L:1019:VAL:H	2.22	0.44
1:M:91:GLN:CG	1:M:190:ARG:NH2	2.81	0.44
1:M:224:ASP:O	1:M:225:PHE:HB3	2.18	0.44
1:M:448:ARG:HG3	1:M:449:ASN:N	2.25	0.44
1:M:595:THR:HA	1:M:596:PRO:C	2.43	0.44
1:N:246:MET:HE1	1:N:248:GLY:O	2.18	0.44
1:N:701:VAL:HG12	1:N:712:GLY:HA2	1.99	0.44
1:O:54:LEU:HB2	1:O:212:VAL:HG12	2.00	0.44
1:O:244:VAL:HG12	1:O:245:GLN:N	2.33	0.44
1:O:424:ASN:O	1:O:426:LEU:N	2.50	0.44
1:O:797:GLU:O	1:O:800:ARG:N	2.51	0.44
1:O:820:ALA:HB2	1:O:842:TRP:NE1	2.32	0.44
1:P:6:SER:O	1:P:7:LEU:C	2.59	0.44
1:P:352:ARG:CD	1:P:626:PHE:CE1	3.00	0.44
1:P:379:MET:O	1:P:380:LYS:C	2.59	0.44
1:P:387:VAL:CG2	1:P:388:ARG:N	2.80	0.44
1:P:658:LEU:HD12	1:P:659:ASP:N	2.32	0.44
1:A:390:SER:CB	1:A:391:HIS:ND1	2.80	0.44
1:A:758:PHE:CZ	1:A:864:MET:CE	3.00	0.44
1:B:454:ILE:O	1:B:455:ILE:HG12	2.18	0.44
1:B:870:VAL:HG12	1:B:871:GLU:N	2.33	0.44
1:C:685:LEU:HA	1:C:686:PRO:HD3	1.81	0.44
1:C:741:THR:O	1:C:741:THR:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:513:PRO:O	1:D:514:ALA:HB3	2.18	0.44
1:D:751:LEU:O	1:D:752:GLY:C	2.60	0.44
1:E:256:VAL:O	1:E:271:THR:HG23	2.18	0.44
1:E:371:THR:HB	1:E:372:MET:H	1.66	0.44
1:E:473:ARG:O	1:E:473:ARG:HD2	2.18	0.44
1:F:66:PRO:O	1:F:68:ALA:N	2.51	0.44
1:F:208:ILE:HD13	1:F:208:ILE:HG21	1.83	0.44
1:F:651:LEU:O	1:F:701:VAL:N	2.41	0.44
1:F:881:ARG:NH1	1:F:987:ASP:OD2	2.44	0.44
1:F:1018:LEU:HA	1:F:1018:LEU:HD23	1.67	0.44
1:G:520:ILE:HG21	1:G:520:ILE:HD13	1.61	0.44
1:G:651:LEU:HD13	1:G:651:LEU:HA	1.71	0.44
1:G:768:MET:CE	1:G:1022:GLN:NE2	2.79	0.44
1:H:38:ASN:O	1:H:39:SER:C	2.59	0.44
1:H:91:GLN:H	1:H:91:GLN:CD	2.25	0.44
1:H:460:ASN:ND2	1:H:461:GLU:CG	2.81	0.44
1:H:768:MET:CE	1:H:1022:GLN:NE2	2.79	0.44
1:I:50:GLN:HB3	1:I:216:HIS:O	2.18	0.44
1:I:367:MET:CB	1:I:372:MET:HE3	2.45	0.44
1:I:656:VAL:HG12	1:I:694:LEU:HD11	1.99	0.44
1:I:847:LYS:HG2	1:I:849:LEU:CD2	2.48	0.44
1:J:354:VAL:O	1:J:387:VAL:HG23	2.18	0.44
1:K:79:PRO:HG2	1:K:80:GLU:H	1.83	0.44
1:K:614:HIS:HB3	1:K:615:PRO:HD2	2.00	0.44
1:K:916:ASP:CB	1:K:918:TRP:CZ2	3.01	0.44
1:L:391:HIS:CD2	1:L:460:ASN:HD22	2.35	0.44
1:L:651:LEU:N	1:L:701:VAL:O	2.51	0.44
1:L:689:GLU:O	1:L:690:SER:C	2.60	0.44
1:L:843:GLN:HB3	1:L:847:LYS:O	2.18	0.44
1:M:114:VAL:HG23	1:M:192:SER:O	2.18	0.44
1:M:832:ASP:O	1:M:833:ALA:HB2	2.17	0.44
1:N:7:LEU:HB2	1:N:71:GLU:OE2	2.17	0.44
1:N:44:THR:OG1	1:N:46:ARG:HG3	2.18	0.44
1:N:230:ARG:O	1:N:238:ALA:HB1	2.18	0.44
1:O:654:TRP:NE1	1:O:666:GLY:CA	2.80	0.44
1:O:708:TRP:CE3	1:O:709:SER:HB3	2.53	0.44
1:O:755:ARG:NH2	1:O:769:TRP:CG	2.86	0.44
1:O:897:TRP:O	1:O:918:TRP:N	2.41	0.44
1:O:900:LEU:HB2	1:O:939:CYS:O	2.18	0.44
1:P:352:ARG:NE	1:P:626:PHE:CE1	2.86	0.44
1:P:804:ASN:HD22	1:P:804:ASN:H	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:934:GLU:O	1:P:935:ASN:HB3	2.18	0.44
1:P:937:LEU:CD1	1:P:990:HIS:CD2	3.01	0.44
1:B:322:LEU:HG	1:B:323:ILE:N	2.32	0.43
1:B:386:ALA:HB2	1:B:408:TYR:HB2	1.98	0.43
1:C:395:HIS:O	1:C:396:PRO:C	2.59	0.43
1:C:654:TRP:CZ2	1:C:666:GLY:HA3	2.53	0.43
1:D:245:GLN:HG2	1:D:288:ARG:HG2	2.00	0.43
1:E:197:LEU:HD21	1:E:432:TRP:CE3	2.53	0.43
1:E:287:ASP:CG	1:H:425:ARG:HH22	2.26	0.43
1:E:309:TYR:N	1:E:330:VAL:O	2.51	0.43
1:E:354:VAL:HG22	1:E:355:ASN:O	2.18	0.43
1:E:368:ASP:O	1:E:369:GLU:C	2.59	0.43
1:E:486:TYR:H	1:E:496:THR:CB	2.31	0.43
1:E:518:TRP:HD1	1:E:523:TRP:CE2	2.35	0.43
1:E:786:ARG:HH11	1:E:990:HIS:CE1	2.35	0.43
1:E:801:ILE:HG23	1:E:808:GLU:HG3	1.99	0.43
1:E:989:PHE:HB3	1:E:1009:LEU:HD22	1.99	0.43
1:F:210:ARG:NH1	1:F:395:HIS:HA	2.33	0.43
1:F:282:ARG:HH11	1:G:419:GLY:C	2.26	0.43
1:F:306:PRO:HG3	1:F:406:GLY:HA3	1.99	0.43
1:F:336:ARG:HH21	1:F:338:GLU:CD	2.24	0.43
1:F:575:LEU:O	1:F:586:SER:HA	2.18	0.43
1:G:85:VAL:CG1	1:G:86:VAL:N	2.80	0.43
1:G:123:TYR:CE1	1:G:208:ILE:HG13	2.53	0.43
1:G:160:GLY:O	1:G:161:TYR:HB2	2.18	0.43
1:G:354:VAL:HB	1:G:384:PHE:CE1	2.53	0.43
1:G:557:ARG:NE	1:G:641:GLU:OE2	2.43	0.43
1:G:671:ASP:N	1:G:678:GLN:OE1	2.30	0.43
1:G:698:VAL:HG22	1:G:720:TRP:HZ3	1.83	0.43
1:G:904:GLU:HG3	1:G:906:TYR:HE1	1.82	0.43
1:H:10:VAL:HG22	1:H:13:ARG:HH21	1.82	0.43
1:H:65:ALA:HB1	1:H:66:PRO:CD	2.36	0.43
1:H:129:VAL:HG21	1:H:177:LEU:HD13	1.98	0.43
1:H:342:LEU:HD12	1:H:343:LEU:N	2.32	0.43
1:H:612:THR:HA	1:H:613:PRO:HD3	1.74	0.43
1:H:926:TYR:O	1:H:928:PRO:HD3	2.18	0.43
1:I:91:GLN:HB3	1:I:98:PRO:CD	2.43	0.43
1:I:296:GLU:O	1:I:297:ASN:C	2.58	0.43
1:I:297:ASN:N	1:I:297:ASN:ND2	2.66	0.43
1:I:740:LEU:O	1:I:740:LEU:HG	2.18	0.43
1:K:42:ALA:O	1:K:310:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:92:MET:O	1:K:93:HIS:ND1	2.49	0.43
1:K:390:SER:HA	1:K:391:HIS:HA	1.76	0.43
1:K:390:SER:CB	1:K:391:HIS:CE1	3.01	0.43
1:L:36:TRP:CD2	1:L:42:ALA:HB2	2.53	0.43
1:L:934:GLU:O	1:L:935:ASN:HB3	2.17	0.43
1:L:949:HIS:HD2	1:L:1020:TRP:CE2	2.35	0.43
1:M:568:TRP:CD2	1:M:569:ASP:HB3	2.53	0.43
1:M:578:TYR:CD1	1:M:578:TYR:N	2.86	0.43
1:M:745:MET:CE	1:M:761:GLN:HE22	2.31	0.43
1:N:296:GLU:O	1:N:297:ASN:C	2.60	0.43
1:N:456:TRP:HZ2	1:N:482:ARG:NH1	2.16	0.43
1:N:514:ALA:C	1:N:516:PRO:HD3	2.43	0.43
1:N:687:GLN:N	1:N:688:PRO:HD3	2.33	0.43
1:N:1020:TRP:HD1	1:N:1021:CYS:H	1.62	0.43
1:O:197:LEU:HD21	1:O:432:TRP:CE3	2.52	0.43
1:O:997:ASP:HB2	1:O:999:TRP:CE2	2.53	0.43
1:P:259:SER:CB	1:P:269:SER:HB2	2.48	0.43
1:P:429:ASP:HA	1:P:430:PRO:HD3	1.49	0.43
1:P:682:LEU:HD23	1:P:682:LEU:HA	1.77	0.43
1:B:254:LEU:O	1:B:255:ARG:HD3	2.19	0.43
1:B:472:TYR:O	1:B:476:LYS:HG2	2.18	0.43
1:B:698:VAL:CG2	1:B:718:GLN:CA	2.96	0.43
1:C:569:ASP:O	1:C:605:GLY:HA2	2.19	0.43
1:D:525:SER:O	1:D:526:LEU:C	2.61	0.43
1:E:127:PHE:CE1	1:E:184:LEU:CD1	3.01	0.43
1:E:167:LEU:HB3	1:E:168:PRO:HD2	1.99	0.43
1:E:195:SER:O	1:E:196:TYR:C	2.57	0.43
1:E:533:LEU:CD1	1:E:534:ILE:N	2.79	0.43
1:G:14:ARG:NH1	1:G:16:TRP:CZ2	2.83	0.43
1:G:249:GLU:CD	1:G:251:ARG:HH21	2.25	0.43
1:G:323:ILE:N	1:G:323:ILE:HD12	2.33	0.43
1:G:534:ILE:CD1	1:G:563:GLN:HB2	2.48	0.43
1:G:608:PHE:O	1:G:611:ARG:N	2.45	0.43
1:G:698:VAL:CG2	1:G:720:TRP:CZ3	3.00	0.43
1:H:129:VAL:CG2	1:H:182:ASN:ND2	2.80	0.43
1:H:375:ASP:O	1:H:379:MET:HG3	2.18	0.43
1:H:429:ASP:OD1	1:H:430:PRO:HD2	2.18	0.43
1:H:552:TYR:O	1:H:553:TRP:C	2.60	0.43
1:H:629:PHE:CD1	1:H:629:PHE:N	2.86	0.43
1:H:650:GLU:HB3	1:H:670:LEU:HB2	2.00	0.43
1:H:787:ALA:O	1:H:933:SER:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:856:TYR:HD2	1:H:864:MET:HE2	1.81	0.43
1:H:989:PHE:CZ	1:H:1014:TYR:HD2	2.35	0.43
1:I:132:SER:C	1:I:134:LEU:N	2.76	0.43
1:I:390:SER:HA	1:I:391:HIS:HA	1.57	0.43
1:J:149:ALA:HB2	1:J:192:SER:CB	2.48	0.43
1:J:155:ASN:ND2	1:J:182:ASN:OD1	2.51	0.43
1:J:526:LEU:O	1:J:527:PRO:C	2.57	0.43
1:K:338:GLU:O	1:K:339:ASN:O	2.36	0.43
1:K:420:MET:HE2	1:K:420:MET:HB3	1.64	0.43
1:K:576:ILE:O	1:K:576:ILE:HG22	2.17	0.43
1:K:775:GLN:HE21	1:K:775:GLN:CA	2.31	0.43
1:L:274:PHE:HB3	1:L:286:ALA:O	2.18	0.43
1:L:778:THR:HG22	1:L:779:PRO:O	2.18	0.43
1:M:305:ILE:O	1:M:307:ASN:N	2.49	0.43
1:M:352:ARG:NH2	1:M:641:GLU:OE1	2.52	0.43
1:M:424:ASN:HB2	1:P:279:ILE:HD11	1.99	0.43
1:M:542:MET:CE	1:M:600:GLN:NE2	2.81	0.43
1:M:702:GLN:HA	1:M:703:PRO:HD2	1.86	0.43
1:M:904:GLU:CG	1:M:906:TYR:HE1	2.31	0.43
1:N:356:ARG:O	1:N:356:ARG:HG2	2.16	0.43
1:N:542:MET:HE3	1:N:601:PHE:HA	2.00	0.43
1:N:647:SER:HB2	1:N:650:GLU:HB2	1.99	0.43
1:O:100:TYR:CD2	1:O:602:CYS:HB3	2.53	0.43
1:O:599:ARG:HD2	1:O:600:GLN:OE1	2.18	0.43
1:O:705:ALA:HA	3:O:1257:HOH:O	2.17	0.43
1:O:738:PRO:HA	1:O:751:LEU:HD12	1.99	0.43
1:O:954:ASP:OD2	1:P:1013:ARG:NH2	2.51	0.43
1:P:16:TRP:O	1:P:193:ASP:N	2.51	0.43
1:P:208:ILE:O	1:P:208:ILE:HG22	2.17	0.43
1:P:238:ALA:HB3	1:P:298:PRO:HG3	2.00	0.43
1:P:362:LEU:HD23	1:P:576:ILE:HD12	1.99	0.43
1:P:877:PRO:O	1:P:878:HIS:C	2.61	0.43
1:P:902:PRO:CD	1:P:918:TRP:CZ3	2.98	0.43
1:P:986:ILE:HD12	1:P:986:ILE:HG21	1.83	0.43
1:A:526:LEU:HA	1:A:526:LEU:HD23	1.73	0.43
1:A:567:VAL:CG1	1:A:568:TRP:N	2.82	0.43
1:A:576:ILE:CG2	1:A:577:LYS:N	2.79	0.43
1:A:608:PHE:N	1:A:612:THR:O	2.45	0.43
1:A:726:LEU:HD23	1:A:726:LEU:HA	1.81	0.43
1:A:738:PRO:HB2	1:A:834:VAL:HG23	2.00	0.43
1:A:804:ASN:O	1:A:805:ALA:C	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:894:ARG:HB3	1:A:894:ARG:NH1	2.31	0.43
1:A:967:LEU:HA	1:A:967:LEU:HD23	1.51	0.43
1:B:599:ARG:HB2	1:B:600:GLN:H	1.36	0.43
1:B:777:LEU:HD12	1:B:889:ALA:CA	2.49	0.43
1:C:91:GLN:NE2	1:C:190:ARG:CZ	2.81	0.43
1:D:14:ARG:HH12	1:D:16:TRP:HZ2	1.65	0.43
1:D:25:ASN:HD21	1:D:158:TRP:HZ3	1.66	0.43
1:D:150:PHE:O	1:D:161:TYR:HA	2.17	0.43
1:D:271:THR:HG22	1:D:272:ALA:N	2.34	0.43
1:E:99:ILE:CG2	1:E:100:TYR:N	2.81	0.43
1:E:139:THR:HG21	1:E:177:LEU:HD11	1.97	0.43
1:E:360:HIS:CE1	1:E:361:PRO:HD2	2.53	0.43
1:E:928:PRO:O	1:E:929:TYR:C	2.62	0.43
1:F:261:TRP:HZ3	1:F:264:GLU:O	2.01	0.43
1:F:663:LEU:HA	1:F:663:LEU:HD23	1.81	0.43
1:F:836:ILE:CG2	1:F:837:THR:N	2.80	0.43
1:G:16:TRP:O	1:G:193:ASP:N	2.47	0.43
1:G:822:LEU:CD1	1:G:824:GLN:H	2.31	0.43
1:G:833:ALA:HB1	1:G:859:ASP:HA	1.95	0.43
1:H:107:ILE:HG13	1:H:108:THR:O	2.19	0.43
1:H:313:VAL:O	1:H:313:VAL:HG12	2.17	0.43
1:H:356:ARG:CD	1:H:379:MET:HE1	2.47	0.43
1:H:767:GLN:CD	1:H:768:MET:H	2.26	0.43
1:H:822:LEU:HD12	1:H:824:GLN:N	2.27	0.43
1:H:873:ALA:CB	1:H:876:THR:HG22	2.31	0.43
1:I:73:TRP:O	1:I:183:ARG:NH2	2.50	0.43
1:I:158:TRP:CH2	1:I:160:GLY:HA2	2.54	0.43
1:I:282:ARG:HB3	1:L:421:VAL:HG22	2.00	0.43
1:I:967:LEU:HA	1:I:967:LEU:HD23	1.77	0.43
1:J:100:TYR:HB2	1:J:203:TRP:CD2	2.53	0.43
1:J:228:ALA:O	1:J:240:LEU:HA	2.17	0.43
1:J:256:VAL:O	1:J:271:THR:HA	2.19	0.43
1:J:360:HIS:ND1	1:J:363:HIS:N	2.47	0.43
1:J:977:HIS:HD2	1:J:978:ALA:O	2.02	0.43
1:K:83:THR:O	1:K:84:VAL:HG23	2.18	0.43
1:K:545:SER:HB3	1:K:546:LEU:H	1.52	0.43
1:K:747:PHE:CE2	1:K:760:ARG:CD	3.00	0.43
1:K:749:ILE:HD13	1:K:834:VAL:HG11	1.97	0.43
1:K:865:ALA:HB2	1:K:1019:VAL:HG22	2.01	0.43
1:L:114:VAL:CG1	1:L:115:PRO:N	2.80	0.43
1:L:473:ARG:O	1:L:476:LYS:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:636:ILE:HD11	1:L:682:LEU:HD11	2.00	0.43
1:L:654:TRP:CE2	1:L:666:GLY:CA	2.97	0.43
1:M:177:LEU:N	1:M:177:LEU:HD23	2.34	0.43
1:M:482:ARG:HH11	1:M:482:ARG:HD2	1.63	0.43
1:M:523:TRP:HA	1:M:526:LEU:HD12	1.99	0.43
1:M:621:LYS:HE2	1:M:717:TRP:HZ3	1.83	0.43
1:N:378:LEU:HD23	1:N:378:LEU:HA	1.42	0.43
1:N:388:ARG:HA	1:N:410:VAL:HB	2.00	0.43
1:O:387:VAL:O	1:O:387:VAL:HG13	2.18	0.43
1:O:814:GLY:O	1:O:817:GLN:N	2.49	0.43
1:P:34:ALA:O	1:P:35:SER:HB2	2.19	0.43
1:P:231:PHE:HA	1:P:237:ARG:O	2.18	0.43
1:P:456:TRP:CE2	1:P:482:ARG:CD	2.98	0.43
1:P:503:TYR:N	1:P:503:TYR:CD1	2.81	0.43
1:P:668:VAL:CG1	1:P:669:PRO:N	2.81	0.43
1:P:902:PRO:CG	1:P:918:TRP:CE3	3.01	0.43
1:A:742:THR:CG2	1:A:743:SER:N	2.79	0.43
1:A:844:HIS:CE1	1:A:845:GLN:HG3	2.52	0.43
1:A:927:THR:HA	1:A:928:PRO:HD3	1.79	0.43
1:B:300:LEU:O	1:B:307:ASN:HB2	2.18	0.43
1:B:573:GLN:NE2	3:B:1255:HOH:O	2.49	0.43
1:B:854:LYS:NZ	3:B:1217:HOH:O	2.51	0.43
1:B:975:LEU:HD22	1:B:975:LEU:HA	1.78	0.43
1:C:649:ASN:ND2	1:C:704:ASN:O	2.50	0.43
1:C:673:ALA:O	1:C:674:PRO:O	2.36	0.43
1:D:59:ARG:NH2	1:D:81:ALA:O	2.30	0.43
1:D:74:LEU:HD23	1:D:74:LEU:HA	1.85	0.43
1:D:767:GLN:HG3	1:D:768:MET:N	2.34	0.43
1:E:42:ALA:O	1:E:43:ARG:C	2.56	0.43
1:E:170:GLU:C	1:E:171:PHE:CD1	2.97	0.43
1:E:416:GLU:HA	1:E:460:ASN:O	2.18	0.43
1:E:937:LEU:HG	1:E:938:ARG:N	2.33	0.43
1:F:36:TRP:CD2	1:F:42:ALA:CB	2.99	0.43
1:F:856:TYR:CD1	1:F:856:TYR:N	2.86	0.43
1:G:151:HIS:HD1	1:G:151:HIS:HA	1.78	0.43
1:G:350:LEU:HD12	1:G:351:ILE:N	2.33	0.43
1:H:88:SER:HA	1:H:366:VAL:HG21	2.00	0.43
1:H:114:VAL:HG13	1:H:191:TRP:HB2	1.99	0.43
1:H:382:ASN:ND2	1:H:617:LEU:CD2	2.82	0.43
1:H:778:THR:CG2	1:H:779:PRO:HD2	2.40	0.43
1:H:864:MET:O	1:H:1019:VAL:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1019:VAL:O	1:H:1019:VAL:HG12	2.17	0.43
1:H:1020:TRP:CD1	1:H:1021:CYS:N	2.80	0.43
1:I:57:GLU:HB2	1:I:83:THR:CG2	2.49	0.43
1:J:406:GLY:O	1:J:407:LEU:HD23	2.19	0.43
1:J:558:GLN:HG2	1:J:559:TYR:CD1	2.54	0.43
1:K:72:SER:O	1:K:73:TRP:C	2.62	0.43
1:K:256:VAL:N	1:K:272:ALA:O	2.45	0.43
1:K:290:THR:C	1:K:291:LEU:HD12	2.43	0.43
1:K:597:ASN:ND2	1:K:599:ARG:H	2.15	0.43
1:K:903:GLN:O	1:K:904:GLU:C	2.58	0.43
1:L:372:MET:HG3	1:L:398:TRP:HE3	1.83	0.43
1:M:30:HIS:C	1:M:31:PRO:O	2.61	0.43
1:M:300:LEU:H	1:M:300:LEU:HG	1.75	0.43
1:M:367:MET:HE1	1:M:371:THR:CB	2.46	0.43
1:M:381:GLN:C	1:M:382:ASN:HD22	2.25	0.43
1:M:397:LEU:HD13	1:M:397:LEU:HA	1.78	0.43
1:M:606:LEU:O	1:M:617:LEU:HD13	2.19	0.43
1:M:747:PHE:CE1	1:M:760:ARG:CD	2.95	0.43
1:N:52:ARG:HB3	1:N:214:LEU:HB2	1.99	0.43
1:N:147:ASN:CA	1:N:165:SER:HB3	2.46	0.43
1:N:152:LEU:HD12	1:N:153:TRP:N	2.31	0.43
1:N:635:THR:CG2	1:N:681:GLU:HG3	2.40	0.43
1:N:717:TRP:HZ2	1:N:912:ALA:HB1	1.84	0.43
1:N:904:GLU:CG	1:N:906:TYR:HE1	2.31	0.43
1:O:138:GLN:NE2	1:O:172:ASP:OD2	2.34	0.43
1:O:369:GLU:HG3	1:O:397:LEU:HD21	2.00	0.43
1:O:534:ILE:HG22	3:O:1261:HOH:O	2.18	0.43
1:O:718:GLN:HG3	1:O:719:GLN:H	1.83	0.43
1:O:755:ARG:HB2	1:O:769:TRP:HB2	2.01	0.43
1:P:11:LEU:HD23	1:P:11:LEU:N	2.33	0.43
1:P:573:GLN:HB2	1:P:602:CYS:HB2	1.99	0.43
1:P:797:GLU:O	1:P:801:ILE:HG13	2.19	0.43
1:P:906:TYR:OH	1:P:934:GLU:OE2	2.33	0.43
1:A:10:VAL:C	1:A:11:LEU:HD23	2.43	0.43
1:A:668:VAL:CG1	1:A:669:PRO:HD2	2.42	0.43
1:B:330:VAL:HG13	3:B:1267:HOH:O	2.18	0.43
1:B:645:ARG:NH2	1:B:650:GLU:OE1	2.48	0.43
1:B:768:MET:HE1	1:B:1022:GLN:CD	2.43	0.43
1:C:39:SER:O	1:C:40:GLU:C	2.61	0.43
1:C:429:ASP:OD1	1:C:431:ARG:HD3	2.18	0.43
1:C:678:GLN:O	1:C:679:LEU:HD23	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:114:VAL:HG13	1:D:115:PRO:N	2.33	0.43
1:D:427:THR:HG22	1:D:436:MET:HE1	1.99	0.43
1:D:577:LYS:O	1:D:584:PRO:HA	2.18	0.43
1:D:775:GLN:NE2	1:D:775:GLN:CA	2.81	0.43
1:E:78:LEU:HD22	1:E:78:LEU:HA	1.82	0.43
1:E:114:VAL:CG1	1:E:191:TRP:HB2	2.48	0.43
1:E:297:ASN:O	1:E:298:PRO:C	2.62	0.43
1:E:323:ILE:N	1:E:323:ILE:CD1	2.82	0.43
1:E:575:LEU:O	1:E:587:ALA:N	2.45	0.43
1:F:337:ILE:HA	1:F:341:LEU:O	2.18	0.43
1:F:357:HIS:CE1	1:F:568:TRP:HH2	2.34	0.43
1:G:80:GLU:HG3	1:G:80:GLU:H	1.31	0.43
1:G:237:ARG:HD2	1:G:296:GLU:CG	2.47	0.43
1:G:287:ASP:OD1	1:G:287:ASP:N	2.35	0.43
1:G:496:THR:O	1:G:496:THR:HG23	2.18	0.43
1:G:738:PRO:HB2	1:G:834:VAL:CG2	2.48	0.43
1:H:227:VAL:CG1	1:H:240:LEU:HD11	2.48	0.43
1:H:413:ALA:HA	1:H:443:MET:CE	2.44	0.43
1:I:114:VAL:CG1	1:I:115:PRO:HD2	2.39	0.43
1:I:768:MET:HG2	1:I:775:GLN:HB2	2.00	0.43
1:I:892:ALA:HB3	1:I:946:TYR:CE1	2.54	0.43
1:J:209:PHE:O	1:J:366:VAL:HG22	2.17	0.43
1:J:372:MET:HE1	1:J:395:HIS:CG	2.53	0.43
1:J:420:MET:HE3	1:J:420:MET:HA	1.99	0.43
1:J:436:MET:CE	1:J:467:ASN:HD22	2.11	0.43
1:J:515:VAL:O	1:J:516:PRO:C	2.60	0.43
1:J:577:LYS:HD2	1:J:591:ASP:O	2.18	0.43
1:J:789:LEU:HA	1:J:933:SER:HB2	2.00	0.43
1:K:274:PHE:CD2	1:K:289:VAL:CG1	3.01	0.43
1:K:278:ILE:N	1:K:278:ILE:HD12	2.34	0.43
1:K:843:GLN:HG2	1:K:848:THR:HA	2.00	0.43
1:L:163:GLN:OE1	1:L:193:ASP:OD1	2.36	0.43
1:L:257:THR:HA	1:L:270:GLY:O	2.18	0.43
1:L:278:ILE:CD1	1:L:278:ILE:N	2.79	0.43
1:L:422:PRO:C	1:L:424:ASN:H	2.26	0.43
1:L:625:GLN:HB2	1:L:716:ALA:HB2	1.99	0.43
1:M:1004:SER:HB2	1:M:1006:GLU:OE2	2.18	0.43
1:N:10:VAL:H	1:N:10:VAL:HG23	1.57	0.43
1:N:35:SER:HB3	1:N:50:GLN:HB3	1.99	0.43
1:N:152:LEU:CG	1:N:153:TRP:N	2.80	0.43
1:N:292:ARG:O	1:N:293:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:533:LEU:O	1:O:534:ILE:HG13	2.17	0.43
1:O:832:ASP:O	1:O:833:ALA:HB2	2.18	0.43
1:O:922:LEU:HD13	1:O:946:TYR:CE1	2.54	0.43
1:P:234:ASP:OD1	1:P:236:SER:OG	2.31	0.43
1:P:387:VAL:HG23	1:P:388:ARG:N	2.33	0.43
1:P:505:ARG:HG2	1:P:996:ASP:OD2	2.17	0.43
1:P:921:PRO:O	1:P:922:LEU:C	2.60	0.43
1:P:927:THR:HB	1:P:935:ASN:HB2	1.99	0.43
1:A:224:ASP:O	1:A:225:PHE:HB3	2.19	0.43
1:A:271:THR:HG22	1:A:272:ALA:N	2.33	0.43
1:A:490:GLY:O	1:A:491:ALA:HB3	2.17	0.43
1:B:53:SER:O	1:B:54:LEU:HD23	2.18	0.43
1:B:102:ASN:HB3	3:B:1219:HOH:O	2.18	0.43
1:B:562:LEU:HD23	1:B:562:LEU:HA	1.85	0.43
1:C:360:HIS:CG	1:C:361:PRO:HD2	2.54	0.43
1:C:836:ILE:CG2	1:C:837:THR:N	2.81	0.43
1:D:409:VAL:CG1	1:D:410:VAL:N	2.80	0.43
1:D:433:LEU:HB3	1:D:434:PRO:HD3	2.01	0.43
1:D:552:TYR:C	1:D:554:GLN:H	2.27	0.43
1:D:786:ARG:HH11	1:D:990:HIS:CE1	2.35	0.43
1:E:13:ARG:O	1:E:14:ARG:HB2	2.19	0.43
1:E:44:THR:O	1:E:45:ASP:C	2.59	0.43
1:F:473:ARG:O	1:F:474:TRP:C	2.59	0.43
1:F:670:LEU:HD23	1:F:670:LEU:HA	1.91	0.43
1:G:194:GLY:O	1:G:198:GLU:HG3	2.19	0.43
1:H:25:ASN:ND2	1:H:158:TRP:CH2	2.87	0.43
1:H:34:ALA:CB	1:H:36:TRP:CZ3	3.00	0.43
1:H:395:HIS:O	1:H:396:PRO:C	2.59	0.43
1:I:316:HIS:HB3	1:I:322:LEU:HA	2.01	0.43
1:I:572:ASP:HB3	1:I:603:MET:HG2	2.01	0.43
1:I:936:GLY:O	1:I:937:LEU:O	2.37	0.43
1:I:1004:SER:HB2	1:I:1006:GLU:OE2	2.19	0.43
1:J:57:GLU:HA	1:J:84:VAL:O	2.18	0.43
1:J:542:MET:HE1	1:J:601:PHE:CG	2.53	0.43
1:J:895:VAL:CG2	1:J:922:LEU:HD12	2.49	0.43
1:K:78:LEU:CB	1:K:79:PRO:HD2	2.34	0.43
1:K:160:GLY:HA3	1:K:171:PHE:CE2	2.54	0.43
1:K:726:LEU:HD23	1:K:726:LEU:HA	1.49	0.43
1:K:1022:GLN:HB3	1:K:1023:LYS:H	1.56	0.43
1:L:115:PRO:CG	1:L:191:TRP:CD1	3.00	0.43
1:L:147:ASN:HB2	1:L:209:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:200:GLN:O	1:L:202:MET:HG2	2.19	0.43
1:L:651:LEU:HD12	1:L:651:LEU:HA	1.70	0.43
1:L:937:LEU:CD1	1:L:990:HIS:HD2	2.32	0.43
1:M:168:PRO:O	1:M:442:ARG:NH2	2.50	0.43
1:M:225:PHE:O	1:M:226:HIS:HD2	2.01	0.43
1:M:487:GLU:HB2	1:M:500:CYS:O	2.18	0.43
1:M:925:MET:HB3	1:M:925:MET:HE3	1.37	0.43
1:N:412:GLU:OE1	1:N:457:SER:OG	2.29	0.43
1:N:734:SER:CB	1:N:860:GLY:HA3	2.49	0.43
1:O:202:MET:CE	1:O:357:HIS:CD2	2.97	0.43
1:O:356:ARG:HG2	3:O:1277:HOH:O	2.17	0.43
1:O:654:TRP:CE2	1:O:666:GLY:CA	2.97	0.43
1:O:726:LEU:HD23	1:O:726:LEU:HA	1.70	0.43
1:O:740:LEU:HD12	1:O:749:ILE:CD1	2.49	0.43
1:O:857:ARG:CG	1:O:857:ARG:NH1	2.79	0.43
1:P:141:ILE:CB	1:P:214:LEU:HD21	2.47	0.43
1:P:145:GLY:C	1:P:146:VAL:HG23	2.44	0.43
1:P:360:HIS:HB3	1:P:363:HIS:HB2	2.00	0.43
1:P:653:HIS:NE2	1:P:667:GLU:CD	2.77	0.43
1:P:972:HIS:N	1:P:972:HIS:ND1	2.66	0.43
1:A:261:TRP:CE3	1:A:266:GLN:HA	2.53	0.43
1:A:395:HIS:CG	1:A:396:PRO:HD2	2.54	0.43
1:A:632:SER:O	1:A:635:THR:N	2.42	0.43
1:A:955:PHE:CD1	1:A:955:PHE:N	2.87	0.43
1:B:23:GLN:C	1:B:24:LEU:HD13	2.42	0.43
1:B:73:TRP:CE2	1:B:122:CYS:HB3	2.54	0.43
1:B:114:VAL:HG11	1:B:191:TRP:HB2	2.00	0.43
1:B:373:VAL:HG12	1:B:377:LEU:HD12	1.99	0.43
1:B:382:ASN:ND2	1:B:617:LEU:CD2	2.81	0.43
1:B:572:ASP:CG	1:B:603:MET:HB3	2.42	0.43
1:B:718:GLN:HG2	1:B:720:TRP:CZ2	2.53	0.43
1:B:767:GLN:OE1	1:B:768:MET:O	2.37	0.43
1:C:890:GLN:CG	1:C:891:VAL:N	2.81	0.43
1:E:146:VAL:HG11	1:E:150:PHE:CD1	2.53	0.43
1:E:178:ARG:HB2	1:E:182:ASN:OD1	2.19	0.43
1:E:349:LEU:HD13	1:E:351:ILE:HD11	2.00	0.43
1:E:390:SER:CB	1:E:391:HIS:ND1	2.82	0.43
1:E:460:ASN:O	1:E:461:GLU:C	2.60	0.43
1:E:536:CYS:O	1:E:566:PHE:HB2	2.19	0.43
1:E:575:LEU:O	1:E:587:ALA:HB3	2.18	0.43
1:E:738:PRO:HB2	1:E:749:ILE:HG23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:964:GLN:O	1:E:965:GLN:C	2.59	0.43
1:G:24:LEU:HD12	1:G:24:LEU:HA	1.56	0.43
1:G:86:VAL:CG1	1:G:87:PRO:HA	2.40	0.43
1:G:260:LEU:C	1:G:267:VAL:HG23	2.43	0.43
1:G:634:GLN:O	1:G:682:LEU:HB2	2.19	0.43
1:H:246:MET:HE3	1:H:246:MET:C	2.43	0.43
1:H:324:GLU:CG	1:H:325:ALA:H	2.32	0.43
1:I:788:PRO:HG3	1:I:807:VAL:CG2	2.49	0.43
1:I:902:PRO:HD3	1:I:918:TRP:CH2	2.53	0.43
1:I:959:ILE:HA	3:I:1254:HOH:O	2.18	0.43
1:I:979:GLU:OE1	1:I:983:TRP:NE1	2.51	0.43
1:J:250:LEU:HD11	1:J:286:ALA:O	2.18	0.43
1:J:655:MET:HE3	1:J:655:MET:HB3	1.71	0.43
1:K:18:ASN:CB	1:K:21:VAL:HG23	2.49	0.43
1:K:358:GLU:HB3	1:K:367:MET:HG3	2.01	0.43
1:K:635:THR:OG1	1:K:681:GLU:HA	2.19	0.43
1:K:708:TRP:CD1	1:K:708:TRP:H	2.37	0.43
1:K:904:GLU:OE2	1:K:929:TYR:OH	2.35	0.43
1:L:440:VAL:HG23	1:L:471:LEU:HD13	1.96	0.43
1:L:942:ARG:HA	1:L:953:GLY:O	2.19	0.43
1:M:109:VAL:O	1:M:109:VAL:HG12	2.18	0.43
1:N:63:PHE:HB3	1:N:64:PRO:HD2	2.01	0.43
1:N:91:GLN:NE2	1:N:96:ASP:OD1	2.51	0.43
1:N:493:THR:O	1:N:496:THR:HG22	2.19	0.43
1:N:801:ILE:HA	1:N:801:ILE:HD12	1.62	0.43
1:O:271:THR:CG2	1:O:272:ALA:N	2.79	0.43
1:P:227:VAL:CG1	1:P:240:LEU:HD11	2.49	0.43
1:P:333:ARG:HB3	1:P:345:ASN:HD21	1.82	0.43
1:P:391:HIS:CD2	1:P:460:ASN:ND2	2.87	0.43
1:P:395:HIS:HA	1:P:396:PRO:HD3	1.89	0.43
1:P:927:THR:CG2	1:P:929:TYR:CZ	3.01	0.43
1:P:955:PHE:HB2	1:P:987:ASP:O	2.18	0.43
1:A:52:ARG:O	1:A:213:SER:HA	2.19	0.43
1:A:270:GLY:C	1:A:291:LEU:HD23	2.44	0.43
1:A:356:ARG:NH1	1:A:356:ARG:CG	2.79	0.43
1:A:949:HIS:ND1	1:A:949:HIS:N	2.67	0.43
1:B:3:ILE:C	1:B:5:ASP:H	2.27	0.43
1:B:915:PHE:CD1	1:B:915:PHE:C	2.96	0.43
1:C:13:ARG:H	1:C:13:ARG:HG3	1.37	0.43
1:D:261:TRP:CZ3	1:D:266:GLN:HB2	2.54	0.43
1:D:351:ILE:HG23	1:D:351:ILE:HD12	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:352:ARG:O	1:D:385:ASN:HB2	2.19	0.43
1:D:655:MET:CG	1:D:656:VAL:N	2.79	0.43
1:E:73:TRP:CD1	1:E:183:ARG:HH22	2.36	0.43
1:E:80:GLU:HG3	1:E:80:GLU:H	1.25	0.43
1:E:90:TRP:C	1:E:90:TRP:CD1	2.97	0.43
1:E:210:ARG:HH12	1:E:395:HIS:N	2.14	0.43
1:E:277:GLU:H	1:E:277:GLU:HG3	1.63	0.43
1:E:289:VAL:HG22	1:E:291:LEU:HD12	2.00	0.43
1:E:654:TRP:CE3	1:E:655:MET:HA	2.53	0.43
1:E:764:PHE:O	1:E:766:SER:N	2.51	0.43
1:F:114:VAL:HG13	1:F:115:PRO:HD2	2.00	0.43
1:F:608:PHE:HD2	1:F:612:THR:O	2.01	0.43
1:F:678:GLN:C	1:F:679:LEU:HD23	2.44	0.43
1:F:1011:ALA:HB3	1:F:1014:TYR:CZ	2.53	0.43
1:G:138:GLN:HE21	1:G:172:ASP:CG	2.26	0.43
1:G:152:LEU:CD2	1:G:159:VAL:HB	2.47	0.43
1:G:967:LEU:HD23	1:G:967:LEU:HA	1.91	0.43
1:H:138:GLN:HG3	1:H:172:ASP:CG	2.44	0.43
1:H:486:TYR:CE2	1:H:488:GLY:CA	2.99	0.43
1:H:618:THR:HG22	1:H:912:ALA:HB1	2.00	0.43
1:H:797:GLU:N	1:H:800:ARG:O	2.39	0.43
1:I:18:ASN:N	1:I:193:ASP:OD2	2.52	0.43
1:I:189:LEU:N	1:I:189:LEU:CD2	2.79	0.43
1:I:225:PHE:C	1:I:226:HIS:HD2	2.27	0.43
1:I:237:ARG:HD2	1:I:296:GLU:HG3	2.00	0.43
1:I:654:TRP:CZ2	1:I:666:GLY:HA3	2.53	0.43
1:K:139:THR:CG2	1:K:177:LEU:HD12	2.49	0.43
1:K:579:ASP:CG	1:K:583:ASN:HB2	2.44	0.43
1:K:646:HIS:O	1:K:647:SER:C	2.62	0.43
1:K:653:HIS:NE2	1:K:667:GLU:OE1	2.51	0.43
1:K:933:SER:O	1:K:934:GLU:C	2.61	0.43
1:K:975:LEU:HD23	1:K:975:LEU:HA	1.78	0.43
1:L:316:HIS:HB3	1:L:322:LEU:HA	1.99	0.43
1:L:395:HIS:O	1:L:396:PRO:C	2.61	0.43
1:L:474:TRP:CE2	1:L:478:VAL:HG21	2.54	0.43
1:L:970:THR:HG22	1:L:975:LEU:HB2	2.00	0.43
1:M:51:LEU:HD12	1:M:52:ARG:H	1.84	0.43
1:M:125:LEU:O	1:M:184:LEU:N	2.43	0.43
1:M:257:THR:OG1	1:M:271:THR:HG23	2.19	0.43
1:M:295:VAL:HG21	1:M:332:PHE:HZ	1.84	0.43
1:M:315:LEU:HG	1:M:323:ILE:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:316:HIS:HA	1:M:323:ILE:HD13	2.01	0.43
1:M:390:SER:C	1:M:391:HIS:ND1	2.77	0.43
1:M:651:LEU:CD1	1:M:669:PRO:HA	2.47	0.43
1:N:350:LEU:HB3	1:N:352:ARG:HH12	1.84	0.43
1:N:502:MET:HB2	1:N:537:GLU:HB2	2.01	0.43
1:N:629:PHE:CD1	1:N:629:PHE:N	2.86	0.43
1:O:552:TYR:O	1:O:554:GLN:N	2.52	0.43
1:P:103:VAL:HG22	1:P:418:HIS:CD2	2.54	0.43
1:P:231:PHE:HB3	1:P:235:PHE:HA	2.01	0.43
1:P:322:LEU:HD11	1:P:325:ALA:HB2	2.00	0.43
1:P:578:TYR:HA	1:P:583:ASN:O	2.18	0.43
1:P:1013:ARG:CZ	1:P:1013:ARG:HB2	2.49	0.43
1:A:6:SER:HG	1:A:9:VAL:HG23	1.82	0.43
1:A:360:HIS:HA	1:A:361:PRO:HD3	1.87	0.43
1:A:395:HIS:O	1:A:396:PRO:C	2.59	0.43
1:A:503:TYR:N	1:A:537:GLU:O	2.37	0.43
1:B:441:THR:HG21	1:C:430:PRO:HB3	2.00	0.43
1:B:959:ILE:HG23	1:B:959:ILE:O	2.19	0.43
1:C:685:LEU:HA	1:C:685:LEU:HD23	1.66	0.43
1:D:475:ILE:HD12	1:D:475:ILE:HG21	1.77	0.43
1:D:485:GLN:HA	1:D:496:THR:OG1	2.19	0.43
1:E:322:LEU:CD2	1:E:324:GLU:N	2.80	0.43
1:E:439:ARG:NH1	1:E:439:ARG:CG	2.78	0.43
1:F:141:ILE:O	1:F:170:GLU:HA	2.19	0.43
1:F:654:TRP:NE1	1:F:666:GLY:CA	2.76	0.43
1:G:651:LEU:HD12	1:G:668:VAL:O	2.18	0.43
1:G:678:GLN:O	1:G:679:LEU:HD23	2.19	0.43
1:G:679:LEU:HD23	1:G:679:LEU:HA	1.28	0.43
1:H:18:ASN:HD22	1:H:21:VAL:CG2	2.32	0.43
1:H:202:MET:CE	1:H:357:HIS:CD2	3.00	0.43
1:H:202:MET:CE	1:H:392:TYR:HE2	2.32	0.43
1:H:388:ARG:NH2	1:H:460:ASN:OD1	2.52	0.43
1:H:569:ASP:N	1:H:569:ASP:OD1	2.52	0.43
1:I:210:ARG:HH11	1:I:395:HIS:CB	2.30	0.43
1:I:928:PRO:O	1:I:929:TYR:C	2.61	0.43
1:I:961:ARG:NE	1:I:981:GLY:O	2.52	0.43
1:J:30:HIS:CE1	1:J:33:PHE:CD2	3.07	0.43
1:K:23:GLN:O	1:K:24:LEU:HD13	2.19	0.43
1:K:195:SER:C	1:K:197:LEU:H	2.27	0.43
1:K:595:THR:CG2	1:K:596:PRO:HA	2.49	0.43
1:K:686:PRO:C	1:K:688:PRO:HD3	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:17:GLU:OE1	1:L:113:PHE:HD1	2.02	0.43
1:L:668:VAL:CG1	1:L:669:PRO:N	2.79	0.43
1:M:108:THR:CG2	1:M:109:VAL:N	2.80	0.43
1:M:352:ARG:NE	1:M:626:PHE:CE1	2.87	0.43
1:M:390:SER:HB2	1:M:391:HIS:CE1	2.54	0.43
1:M:421:VAL:O	1:M:421:VAL:HG12	2.19	0.43
1:M:465:GLY:H	1:M:468:HIS:CE1	2.33	0.43
1:M:594:ASP:O	1:M:597:ASN:HB3	2.19	0.43
1:O:18:ASN:C	1:O:20:GLY:N	2.77	0.43
1:O:134:LEU:HD22	1:O:134:LEU:HA	1.49	0.43
1:O:292:ARG:C	1:O:293:LEU:HD23	2.43	0.43
1:O:409:VAL:CG1	1:O:410:VAL:N	2.81	0.43
1:O:476:LYS:HA	1:O:476:LYS:HD2	1.73	0.43
1:O:506:VAL:O	1:O:506:VAL:HG12	2.19	0.43
1:O:706:THR:OG1	1:O:709:SER:N	2.41	0.43
1:P:151:HIS:CE1	1:P:161:TYR:CD1	3.07	0.43
1:P:378:LEU:HB3	1:P:570:TRP:HH2	1.83	0.43
1:A:66:PRO:O	1:A:69:VAL:HG23	2.18	0.43
1:A:382:ASN:O	1:A:383:ASN:HB2	2.17	0.43
1:A:472:TYR:HD1	1:A:484:VAL:HG11	1.83	0.43
1:A:620:ALA:O	1:A:621:LYS:C	2.62	0.43
1:A:843:GLN:HB3	1:A:847:LYS:O	2.19	0.43
1:A:874:SER:HB3	1:B:724:GLU:OE1	2.19	0.43
1:A:890:GLN:HG3	1:A:891:VAL:H	1.82	0.43
1:B:460:ASN:ND2	1:B:461:GLU:CG	2.81	0.43
1:B:653:HIS:CD2	1:B:667:GLU:CG	3.00	0.43
1:B:822:LEU:HD12	1:B:824:GLN:H	1.83	0.43
1:B:868:VAL:O	1:B:1015:HIS:HA	2.19	0.43
1:B:967:LEU:HD23	1:B:967:LEU:HA	1.67	0.43
1:C:698:VAL:O	1:C:717:TRP:HA	2.19	0.43
1:D:27:LEU:N	1:D:27:LEU:CD2	2.79	0.43
1:D:141:ILE:HG13	1:D:214:LEU:HD23	2.00	0.43
1:D:141:ILE:CG1	1:D:214:LEU:HD23	2.48	0.43
1:D:394:ASN:N	1:D:394:ASN:HD22	2.15	0.43
1:D:668:VAL:HG13	1:D:669:PRO:HD2	2.01	0.43
1:D:879:PRO:O	1:D:1009:LEU:HD12	2.18	0.43
1:D:1005:ALA:C	1:D:1007:PHE:N	2.76	0.43
1:E:7:LEU:N	1:E:71:GLU:OE2	2.50	0.43
1:E:52:ARG:CB	1:E:214:LEU:HB2	2.45	0.43
1:E:538:TYR:O	1:E:567:VAL:HA	2.19	0.43
1:E:963:SER:O	1:E:966:GLN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:970:THR:HG21	1:E:976:LEU:HD23	2.01	0.43
1:F:100:TYR:HB2	1:F:203:TRP:CE3	2.54	0.43
1:F:460:ASN:O	1:F:461:GLU:C	2.61	0.43
1:G:79:PRO:CG	1:G:80:GLU:HG3	2.39	0.43
1:G:127:PHE:O	1:G:182:ASN:N	2.47	0.43
1:G:139:THR:HG21	1:G:177:LEU:CD1	2.49	0.43
1:G:460:ASN:O	1:G:461:GLU:C	2.61	0.43
1:G:544:ASN:HB2	1:G:929:TYR:CE2	2.54	0.43
1:G:610:ASP:OD1	1:G:612:THR:HG23	2.19	0.43
1:G:721:ARG:O	1:G:721:ARG:HG2	2.19	0.43
1:G:892:ALA:HB3	1:G:946:TYR:CD1	2.50	0.43
1:H:86:VAL:CG1	1:H:87:PRO:HA	2.40	0.43
1:H:132:SER:C	1:H:134:LEU:H	2.26	0.43
1:H:147:ASN:CB	1:H:209:PHE:HE1	2.24	0.43
1:H:166:ARG:CG	1:H:392:TYR:HB2	2.40	0.43
1:H:225:PHE:O	1:H:226:HIS:HD2	2.02	0.43
1:H:278:ILE:HD12	1:H:278:ILE:H	1.83	0.43
1:H:373:VAL:O	1:H:373:VAL:HG12	2.17	0.43
1:I:123:TYR:N	1:I:123:TYR:CD1	2.87	0.43
1:I:134:LEU:HD23	1:I:134:LEU:HA	1.71	0.43
1:I:652:LEU:HD12	1:I:653:HIS:N	2.33	0.43
1:I:786:ARG:HB2	1:I:934:GLU:HB2	2.01	0.43
1:J:84:VAL:CG1	1:J:85:VAL:H	2.24	0.43
1:J:132:SER:C	1:J:134:LEU:N	2.77	0.43
1:J:257:THR:HA	1:J:270:GLY:O	2.19	0.43
1:J:656:VAL:CG1	1:J:657:ALA:N	2.79	0.43
1:K:246:MET:HG2	1:K:274:PHE:CZ	2.54	0.43
1:K:577:LYS:O	1:K:584:PRO:HA	2.18	0.43
1:K:654:TRP:HB3	1:K:698:VAL:HG12	2.00	0.43
1:K:749:ILE:O	1:K:755:ARG:HA	2.19	0.43
1:K:843:GLN:HE21	1:K:843:GLN:HB2	1.67	0.43
1:K:904:GLU:HG3	1:K:906:TYR:HE1	1.84	0.43
1:L:147:ASN:HA	1:L:148:SER:HA	1.76	0.43
1:L:279:ILE:HG21	1:L:279:ILE:HD12	1.78	0.43
1:M:101:THR:HG22	1:M:102:ASN:H	1.84	0.43
1:M:186:VAL:CG1	1:M:187:MET:N	2.81	0.43
1:M:381:GLN:HG2	1:M:713:HIS:NE2	2.33	0.43
1:M:443:MET:O	1:M:446:ARG:N	2.50	0.43
1:M:643:LEU:HD23	1:M:643:LEU:HA	1.85	0.43
1:M:1018:LEU:C	1:M:1019:VAL:HG23	2.44	0.43
1:N:280:ASP:C	1:N:282:ARG:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:34:ALA:HA	1:O:51:LEU:HD22	2.01	0.43
1:O:454:ILE:O	1:O:455:ILE:HG12	2.18	0.43
1:P:99:ILE:O	1:P:203:TRP:HA	2.18	0.43
1:P:224:ASP:O	1:P:225:PHE:HB3	2.19	0.43
1:P:225:PHE:HB3	1:P:244:VAL:CG1	2.31	0.43
1:P:254:LEU:HA	1:P:254:LEU:HD23	1.71	0.43
1:P:256:VAL:O	1:P:271:THR:HA	2.19	0.43
1:P:331:GLY:CA	1:P:451:PRO:HG3	2.48	0.43
1:P:592:PHE:C	1:P:594:ASP:H	2.27	0.43
1:P:622:HIS:O	1:P:625:GLN:HG2	2.18	0.43
1:P:1018:LEU:CD2	1:P:1019:VAL:N	2.82	0.43
1:A:199:ASP:HB3	1:A:416:GLU:HG2	2.01	0.42
1:A:465:GLY:O	1:A:466:ALA:C	2.61	0.42
1:A:568:TRP:CD1	1:A:568:TRP:C	2.97	0.42
1:A:608:PHE:O	1:A:611:ARG:N	2.35	0.42
1:A:738:PRO:HB2	1:A:834:VAL:CG2	2.48	0.42
1:B:833:ALA:CB	1:B:859:ASP:HA	2.49	0.42
1:B:925:MET:HB3	3:B:1276:HOH:O	2.18	0.42
1:C:619:GLU:OE1	1:C:619:GLU:HA	2.18	0.42
1:D:57:GLU:HG2	1:D:83:THR:HG22	1.98	0.42
1:D:608:PHE:O	1:D:611:ARG:N	2.33	0.42
1:D:878:HIS:N	1:D:878:HIS:ND1	2.62	0.42
1:E:73:TRP:CZ3	1:E:187:MET:HB2	2.54	0.42
1:E:78:LEU:CB	1:E:79:PRO:HD2	2.47	0.42
1:E:473:ARG:HA	1:E:473:ARG:HD3	1.67	0.42
1:E:475:ILE:O	1:E:479:ASP:N	2.34	0.42
1:F:287:ASP:OD2	1:G:425:ARG:NH2	2.52	0.42
1:F:391:HIS:CE1	1:F:460:ASN:ND2	2.87	0.42
1:F:399:TYR:HE2	1:F:446:ARG:NH2	2.17	0.42
1:F:672:VAL:HG13	1:F:678:GLN:HB2	2.00	0.42
1:F:766:SER:O	1:F:767:GLN:HB2	2.19	0.42
1:F:802:ASP:C	1:F:804:ASN:H	2.27	0.42
1:F:937:LEU:HD12	1:F:937:LEU:HA	1.84	0.42
1:G:84:VAL:CG1	1:G:85:VAL:N	2.79	0.42
1:G:138:GLN:NE2	1:G:172:ASP:OD2	2.46	0.42
1:G:301:TRP:CE3	1:G:301:TRP:C	2.97	0.42
1:G:460:ASN:ND2	1:G:461:GLU:HG3	2.34	0.42
1:G:572:ASP:OD1	1:G:603:MET:HB3	2.19	0.42
1:H:164:ASP:OD1	1:H:414:ASN:ND2	2.48	0.42
1:H:251:ARG:CB	1:H:253:TYR:CE1	2.96	0.42
1:H:324:GLU:HG2	1:H:325:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:369:GLU:O	1:H:373:VAL:HG23	2.18	0.42
1:H:778:THR:HG22	1:H:779:PRO:CD	2.41	0.42
1:H:823:LEU:N	1:H:823:LEU:HD23	2.33	0.42
1:I:257:THR:HG23	1:I:271:THR:OG1	2.19	0.42
1:I:736:ALA:O	1:I:737:ILE:HG22	2.19	0.42
1:J:690:SER:C	1:J:691:ALA:O	2.61	0.42
1:K:23:GLN:HB3	1:K:26:ARG:NH2	2.23	0.42
1:K:91:GLN:HG3	1:K:96:ASP:OD1	2.19	0.42
1:K:141:ILE:HB	1:K:173:LEU:HD12	2.01	0.42
1:K:194:GLY:O	1:K:198:GLU:HG3	2.19	0.42
1:K:693:GLN:HB3	1:K:695:TRP:NE1	2.34	0.42
1:K:768:MET:HG2	1:K:775:GLN:HG3	1.97	0.42
1:L:196:TYR:HD2	1:L:420:MET:CE	2.29	0.42
1:L:399:TYR:HB3	1:L:450:HIS:CD2	2.54	0.42
1:L:583:ASN:HA	1:L:584:PRO:HD3	1.92	0.42
1:L:634:GLN:HE21	1:L:634:GLN:HB3	1.56	0.42
1:L:663:LEU:HD11	1:L:688:PRO:HG2	2.01	0.42
1:M:35:SER:OG	1:M:217:LYS:HG2	2.19	0.42
1:M:59:ARG:NH2	1:M:81:ALA:CB	2.79	0.42
1:M:85:VAL:O	1:M:88:SER:HB3	2.18	0.42
1:M:256:VAL:HB	1:M:272:ALA:O	2.19	0.42
1:M:310:ARG:HH11	1:M:310:ARG:HD3	1.71	0.42
1:M:473:ARG:O	1:M:474:TRP:C	2.62	0.42
1:M:567:VAL:HG12	1:M:568:TRP:N	2.33	0.42
1:M:646:HIS:CD2	1:M:647:SER:N	2.87	0.42
1:N:11:LEU:O	1:N:12:GLN:C	2.62	0.42
1:N:36:TRP:CE2	1:N:42:ALA:HA	2.54	0.42
1:N:740:LEU:HD12	1:N:740:LEU:C	2.36	0.42
1:N:928:PRO:O	1:N:973:ARG:NH1	2.44	0.42
1:O:209:PHE:HB2	1:O:366:VAL:HG22	2.01	0.42
1:O:391:HIS:ND1	1:O:412:GLU:OE2	2.51	0.42
1:P:316:HIS:HD2	1:P:317:THR:O	2.01	0.42
1:P:866:ILE:HG22	1:P:867:THR:H	1.84	0.42
1:P:870:VAL:CG1	1:P:871:GLU:H	2.30	0.42
1:A:350:LEU:HD12	1:A:350:LEU:HA	1.69	0.42
1:A:507:ASP:C	1:A:519:SER:HB2	2.44	0.42
1:A:698:VAL:O	1:A:698:VAL:HG23	2.19	0.42
1:B:655:MET:HE3	1:B:655:MET:HB2	1.81	0.42
1:B:963:SER:O	1:B:964:GLN:C	2.59	0.42
1:C:66:PRO:C	1:C:68:ALA:H	2.26	0.42
1:C:111:PRO:HA	1:C:112:PRO:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:118:ASN:HA	1:C:119:PRO:HD2	1.79	0.42
1:C:137:GLY:HA3	1:C:217:LYS:O	2.19	0.42
1:C:372:MET:O	1:C:376:ILE:HG13	2.19	0.42
1:C:598:ASP:O	1:C:601:PHE:HB2	2.19	0.42
1:C:694:LEU:HD12	1:C:694:LEU:HA	1.52	0.42
1:C:906:TYR:HB3	1:C:907:PRO:CD	2.47	0.42
1:C:965:GLN:O	1:C:966:GLN:C	2.62	0.42
1:D:316:HIS:ND1	1:D:316:HIS:N	2.67	0.42
1:D:767:GLN:HA	1:D:776:LEU:HD12	2.02	0.42
1:D:927:THR:HA	1:D:928:PRO:HD2	1.68	0.42
1:E:385:ASN:HD22	1:E:385:ASN:HA	1.07	0.42
1:E:579:ASP:OD1	1:E:582:GLY:N	2.52	0.42
1:E:651:LEU:HD12	1:E:652:LEU:N	2.35	0.42
1:E:684:GLU:O	1:E:685:LEU:HD23	2.20	0.42
1:F:257:THR:HG22	1:F:258:VAL:N	2.33	0.42
1:F:948:PRO:CD	1:F:949:HIS:H	2.32	0.42
1:G:41:GLU:HA	1:G:46:ARG:HG3	2.01	0.42
1:G:750:GLU:HG2	1:G:755:ARG:HG2	2.02	0.42
1:H:99:ILE:HD12	1:H:99:ILE:N	2.34	0.42
1:H:231:PHE:N	1:H:231:PHE:CD1	2.87	0.42
1:H:254:LEU:O	1:H:255:ARG:HD3	2.19	0.42
1:H:380:LYS:HE3	1:H:406:GLY:O	2.19	0.42
1:H:420:MET:HE3	1:H:420:MET:HA	2.01	0.42
1:H:959:ILE:O	1:H:959:ILE:HG23	2.19	0.42
1:I:6:SER:OG	1:I:9:VAL:N	2.46	0.42
1:I:74:LEU:O	1:I:183:ARG:NH1	2.51	0.42
1:I:325:ALA:C	1:I:326:GLU:HG2	2.44	0.42
1:I:369:GLU:O	1:I:373:VAL:N	2.46	0.42
1:I:375:ASP:O	1:I:376:ILE:C	2.61	0.42
1:I:817:GLN:HE21	1:I:817:GLN:HB2	1.44	0.42
1:J:571:VAL:HG11	1:J:611:ARG:CZ	2.49	0.42
1:K:127:PHE:CE1	1:K:184:LEU:CD1	3.02	0.42
1:K:651:LEU:N	1:K:701:VAL:O	2.46	0.42
1:K:658:LEU:HD11	1:K:692:GLY:CA	2.40	0.42
1:L:78:LEU:HB3	1:L:79:PRO:CD	2.42	0.42
1:L:160:GLY:HA3	1:L:171:PHE:CE2	2.54	0.42
1:L:782:ASP:HB3	1:L:784:PHE:CZ	2.54	0.42
1:L:845:GLN:O	1:L:845:GLN:HG2	2.19	0.42
1:L:930:VAL:HA	1:L:973:ARG:HD3	1.99	0.42
1:L:944:LEU:O	1:L:950:GLN:HA	2.20	0.42
1:M:9:VAL:O	1:M:12:GLN:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:10:VAL:O	1:M:11:LEU:C	2.59	0.42
1:M:143:PHE:CD2	1:M:212:VAL:HG22	2.54	0.42
1:M:205:MET:HE3	1:M:365:GLN:CD	2.43	0.42
1:M:473:ARG:HD2	1:P:469:ASP:HB3	2.01	0.42
1:M:738:PRO:N	1:M:751:LEU:HD13	2.34	0.42
1:M:764:PHE:CZ	1:M:840:HIS:CD2	3.07	0.42
1:M:789:LEU:N	1:M:792:ASP:OD2	2.34	0.42
1:N:166:ARG:HB2	1:N:414:ASN:ND2	2.35	0.42
1:N:236:SER:C	1:N:237:ARG:HG2	2.41	0.42
1:N:252:ASP:N	1:N:252:ASP:OD1	2.47	0.42
1:N:905:ASN:C	1:N:906:TYR:CD1	2.97	0.42
1:N:906:TYR:HB3	1:N:907:PRO:CD	2.49	0.42
1:O:67:GLU:H	1:O:67:GLU:HG3	1.23	0.42
1:O:362:LEU:HG	1:O:576:ILE:CD1	2.47	0.42
1:O:460:ASN:HD21	1:O:461:GLU:HG3	1.76	0.42
1:O:475:ILE:HD13	1:O:475:ILE:HG21	1.83	0.42
1:O:514:ALA:C	1:O:516:PRO:HD3	2.43	0.42
1:P:36:TRP:CD2	1:P:42:ALA:HA	2.54	0.42
1:P:353:GLY:O	1:P:567:VAL:N	2.49	0.42
1:P:375:ASP:O	1:P:379:MET:HG2	2.17	0.42
1:P:391:HIS:HE2	1:P:460:ASN:ND2	2.15	0.42
1:P:625:GLN:HE22	1:P:717:TRP:H	1.67	0.42
1:P:645:ARG:NH1	1:P:648:ASP:OD1	2.52	0.42
1:A:55:ASN:ND2	1:A:87:PRO:HD3	2.33	0.42
1:A:232:ASN:HD21	1:A:237:ARG:HG2	1.84	0.42
1:B:91:GLN:NE2	1:B:96:ASP:OD1	2.52	0.42
1:B:201:ASP:O	1:B:202:MET:HB3	2.17	0.42
1:B:230:ARG:O	1:B:238:ALA:HA	2.20	0.42
1:B:281:GLU:CD	1:C:515:VAL:HG21	2.44	0.42
1:B:400:THR:O	1:B:403:ASP:HB2	2.18	0.42
1:B:786:ARG:HD3	1:B:880:ALA:HB1	2.01	0.42
1:C:100:TYR:CE1	1:C:598:ASP:HB2	2.54	0.42
1:D:352:ARG:CZ	1:D:626:PHE:CE1	3.02	0.42
1:D:393:PRO:HD2	1:D:414:ASN:HB2	2.00	0.42
1:D:487:GLU:O	1:D:491:ALA:N	2.49	0.42
1:D:770:ILE:HD11	1:D:1022:GLN:HG2	2.01	0.42
1:E:36:TRP:CE2	1:E:42:ALA:HA	2.55	0.42
1:E:99:ILE:HD12	1:E:99:ILE:H	1.83	0.42
1:E:429:ASP:HA	1:E:430:PRO:HD3	1.57	0.42
1:E:487:GLU:O	1:E:491:ALA:N	2.45	0.42
1:E:513:PRO:O	1:E:515:VAL:N	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:599:ARG:HB2	1:E:600:GLN:H	1.33	0.42
1:E:616:ALA:C	1:E:618:THR:N	2.76	0.42
1:F:281:GLU:CD	1:G:515:VAL:HG21	2.45	0.42
1:F:576:ILE:CG2	1:F:577:LYS:N	2.80	0.42
1:F:890:GLN:CG	1:F:891:VAL:N	2.83	0.42
1:G:111:PRO:HA	1:G:112:PRO:HA	1.66	0.42
1:G:424:ASN:ND2	1:G:464:HIS:O	2.52	0.42
1:H:91:GLN:CG	1:H:190:ARG:HH21	2.30	0.42
1:H:363:HIS:CD2	1:H:363:HIS:N	2.81	0.42
1:H:588:TYR:C	1:H:589:GLY:O	2.62	0.42
1:H:856:TYR:HB3	1:H:864:MET:HE3	2.01	0.42
1:I:60:PHE:CG	1:I:61:ALA:N	2.88	0.42
1:I:308:LEU:HD23	1:I:308:LEU:HA	1.70	0.42
1:I:413:ALA:CB	1:I:443:MET:HE1	2.41	0.42
1:I:473:ARG:O	1:I:474:TRP:C	2.61	0.42
1:I:524:LEU:HD21	1:I:533:LEU:HB3	2.01	0.42
1:J:101:THR:HG21	1:J:104:THR:HB	2.01	0.42
1:J:165:SER:C	1:J:166:ARG:HD2	2.45	0.42
1:J:386:ALA:HB2	1:J:408:TYR:HB2	2.00	0.42
1:J:498:ILE:CG2	1:J:499:ILE:N	2.80	0.42
1:J:624:GLN:O	1:J:625:GLN:C	2.62	0.42
1:J:701:VAL:HG22	1:J:714:ILE:CD1	2.49	0.42
1:J:777:LEU:HD23	1:J:777:LEU:HA	1.75	0.42
1:K:37:ARG:HH22	1:K:217:LYS:HA	1.84	0.42
1:K:246:MET:HB3	1:K:274:PHE:CZ	2.54	0.42
1:K:427:THR:O	1:K:465:GLY:HA3	2.19	0.42
1:K:454:ILE:HD12	1:K:455:ILE:HG12	2.00	0.42
1:K:518:TRP:CE3	1:K:522:LYS:HE2	2.54	0.42
1:K:742:THR:HG23	1:K:747:PHE:CD1	2.54	0.42
1:K:894:ARG:NH1	1:K:919:ASP:C	2.78	0.42
1:K:970:THR:HG21	1:K:976:LEU:HD23	2.01	0.42
1:L:608:PHE:C	1:L:610:ASP:N	2.77	0.42
1:L:719:GLN:HG2	3:L:1249:HOH:O	2.18	0.42
1:M:589:GLY:HA3	1:M:599:ARG:HA	2.02	0.42
1:M:597:ASN:ND2	1:M:599:ARG:H	2.17	0.42
1:M:843:GLN:HA	1:M:847:LYS:O	2.19	0.42
1:N:262:GLN:HB2	1:N:309:TYR:HE1	1.84	0.42
1:N:585:TRP:CD1	1:N:585:TRP:N	2.87	0.42
1:N:775:GLN:N	1:N:775:GLN:HE21	2.17	0.42
1:O:14:ARG:HG2	1:O:14:ARG:HH11	1.83	0.42
1:O:610:ASP:CG	1:O:612:THR:HG23	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:653:HIS:CD2	1:O:667:GLU:CG	3.00	0.42
1:O:673:ALA:O	1:O:676:GLY:N	2.48	0.42
1:P:3:ILE:O	1:P:4:THR:C	2.61	0.42
1:P:127:PHE:N	1:P:127:PHE:CD1	2.87	0.42
1:P:246:MET:CG	1:P:274:PHE:CE2	3.02	0.42
1:P:501:PRO:O	1:P:535:LEU:HA	2.19	0.42
1:P:765:LEU:HD12	1:P:766:SER:H	1.84	0.42
1:P:793:ILE:HG13	1:P:793:ILE:H	1.62	0.42
1:P:998:SER:C	1:P:999:TRP:CE3	2.97	0.42
1:A:30:HIS:ND1	1:A:31:PRO:O	2.47	0.42
1:A:545:SER:HB3	1:A:546:LEU:H	1.64	0.42
1:A:653:HIS:HE2	1:A:667:GLU:CD	2.26	0.42
1:B:21:VAL:HG13	1:B:24:LEU:HD11	2.01	0.42
1:B:128:ASN:HA	1:B:180:GLY:O	2.19	0.42
1:B:292:ARG:O	1:B:293:LEU:HD23	2.18	0.42
1:B:473:ARG:O	1:B:474:TRP:C	2.62	0.42
1:B:898:LEU:O	1:B:941:THR:HG23	2.19	0.42
1:C:66:PRO:HD2	1:C:67:GLU:HG2	2.01	0.42
1:C:338:GLU:HB3	1:C:343:LEU:HD11	2.01	0.42
1:C:474:TRP:CE2	1:C:478:VAL:HG21	2.55	0.42
1:C:673:ALA:O	1:C:676:GLY:N	2.53	0.42
1:C:894:ARG:HD3	1:C:919:ASP:OD2	2.18	0.42
1:C:910:LEU:C	1:C:910:LEU:HD12	2.44	0.42
1:D:542:MET:HA	1:D:604:ASN:HA	2.01	0.42
1:D:878:HIS:HB3	3:D:1217:HOH:O	2.19	0.42
1:D:925:MET:HB3	1:D:925:MET:HE3	1.44	0.42
1:E:39:SER:O	1:E:40:GLU:C	2.62	0.42
1:E:89:ASN:HB2	1:E:92:MET:HG2	2.02	0.42
1:E:127:PHE:CE1	1:E:184:LEU:HG	2.54	0.42
1:E:128:ASN:HD21	1:E:180:GLY:HA2	1.75	0.42
1:E:152:LEU:HG	1:E:159:VAL:HB	2.01	0.42
1:E:284:GLY:CA	1:H:422:PRO:HG3	2.50	0.42
1:E:934:GLU:O	1:E:935:ASN:HB3	2.17	0.42
1:F:16:TRP:CD1	1:F:17:GLU:HG2	2.54	0.42
1:F:30:HIS:HB2	1:F:31:PRO:CD	2.48	0.42
1:F:36:TRP:HD1	1:F:41:GLU:HB3	1.81	0.42
1:F:83:THR:O	1:F:84:VAL:HG23	2.19	0.42
1:F:153:TRP:HB2	1:F:185:ALA:HB3	2.02	0.42
1:F:168:PRO:O	1:F:442:ARG:NH2	2.51	0.42
1:F:252:ASP:O	1:F:255:ARG:NH1	2.50	0.42
1:F:352:ARG:NH2	1:F:641:GLU:OE1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:473:ARG:HA	1:F:473:ARG:HD3	1.56	0.42
1:G:36:TRP:CE3	1:G:42:ALA:CB	3.02	0.42
1:G:128:ASN:ND2	1:G:180:GLY:CA	2.81	0.42
1:G:719:GLN:OE1	1:G:914:CYS:HA	2.19	0.42
1:G:906:TYR:CE1	1:G:937:LEU:HB3	2.54	0.42
1:H:413:ALA:CA	1:H:443:MET:CE	2.98	0.42
1:H:655:MET:HB3	1:H:655:MET:HE3	1.53	0.42
1:H:764:PHE:HA	3:H:1263:HOH:O	2.20	0.42
1:I:134:LEU:CD1	1:I:179:ALA:H	2.32	0.42
1:I:542:MET:HG3	1:I:603:MET:O	2.19	0.42
1:I:577:LYS:N	1:I:585:TRP:O	2.49	0.42
1:I:577:LYS:HE3	1:I:591:ASP:O	2.19	0.42
1:I:652:LEU:HD23	1:I:680:ILE:HD13	2.02	0.42
1:I:876:THR:OG1	1:I:877:PRO:HD2	2.19	0.42
1:I:906:TYR:OH	1:I:934:GLU:OE2	2.29	0.42
1:I:955:PHE:HB2	1:I:987:ASP:O	2.19	0.42
1:J:87:PRO:O	1:J:88:SER:HB3	2.20	0.42
1:J:367:MET:HE3	1:J:368:ASP:H	1.85	0.42
1:J:655:MET:HB2	1:J:665:SER:HA	2.02	0.42
1:J:742:THR:CG2	1:J:747:PHE:HE1	2.31	0.42
1:K:36:TRP:NE1	1:K:46:ARG:O	2.50	0.42
1:K:37:ARG:NH2	1:K:216:HIS:O	2.52	0.42
1:K:190:ARG:HG2	1:K:206:SER:CB	2.49	0.42
1:K:272:ALA:HB1	1:K:273:PRO:CD	2.46	0.42
1:K:646:HIS:HE2	1:K:671:ASP:CG	2.24	0.42
1:K:807:VAL:HG13	1:K:808:GLU:N	2.35	0.42
1:L:361:PRO:HD2	1:L:362:LEU:H	1.84	0.42
1:L:738:PRO:N	1:L:751:LEU:CD1	2.83	0.42
1:L:768:MET:O	1:L:775:GLN:HG2	2.19	0.42
1:L:937:LEU:HG	1:L:938:ARG:H	1.83	0.42
1:M:18:ASN:CG	1:M:21:VAL:HG23	2.44	0.42
1:M:240:LEU:HD12	1:M:240:LEU:C	2.36	0.42
1:M:639:THR:OG1	1:M:677:LYS:HG2	2.19	0.42
1:M:652:LEU:O	1:M:667:GLU:HA	2.19	0.42
1:M:910:LEU:HD12	1:M:910:LEU:O	2.19	0.42
1:N:57:GLU:HA	1:N:84:VAL:O	2.19	0.42
1:N:995:GLY:H	1:N:1002:SER:HB2	1.85	0.42
1:O:236:SER:C	1:O:237:ARG:HG2	2.43	0.42
1:O:271:THR:O	1:O:272:ALA:HB2	2.19	0.42
1:O:881:ARG:HD3	1:O:987:ASP:OD1	2.20	0.42
1:P:331:GLY:HA3	1:P:451:PRO:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:490:GLY:HA2	3:P:1229:HOH:O	2.18	0.42
1:P:542:MET:CA	1:P:604:ASN:HA	2.49	0.42
1:P:550:ALA:HA	1:P:623:GLN:OE1	2.19	0.42
1:A:40:GLU:HG3	1:A:43:ARG:HH11	1.83	0.42
1:A:89:ASN:HD22	1:A:206:SER:H	1.68	0.42
1:A:111:PRO:HA	1:A:112:PRO:HA	1.66	0.42
1:A:295:VAL:HG12	1:A:296:GLU:N	2.34	0.42
1:A:418:HIS:O	1:D:282:ARG:HD3	2.19	0.42
1:A:576:ILE:HG23	1:A:577:LYS:N	2.34	0.42
1:A:636:ILE:HG21	1:A:636:ILE:HD13	1.70	0.42
1:A:651:LEU:HD12	1:A:669:PRO:HA	2.01	0.42
1:B:130:ASP:O	1:B:131:GLU:C	2.63	0.42
1:B:190:ARG:HG3	1:B:206:SER:OG	2.20	0.42
1:B:395:HIS:CG	1:B:396:PRO:HD2	2.54	0.42
1:C:429:ASP:OD1	1:C:430:PRO:HD2	2.20	0.42
1:C:559:TYR:CD1	1:C:559:TYR:N	2.87	0.42
1:C:916:ASP:CG	1:C:917:ARG:H	2.23	0.42
1:D:70:PRO:O	1:D:71:GLU:C	2.62	0.42
1:D:433:LEU:N	1:D:434:PRO:CD	2.82	0.42
1:D:762:SER:O	1:D:822:LEU:HD22	2.19	0.42
1:D:968:MET:HG3	1:D:968:MET:O	2.18	0.42
1:E:139:THR:N	1:E:174:SER:OG	2.30	0.42
1:E:210:ARG:HH12	1:E:394:ASN:C	2.28	0.42
1:E:708:TRP:N	1:E:708:TRP:CD1	2.87	0.42
1:F:797:GLU:O	1:F:798:ALA:C	2.61	0.42
1:F:1000:SER:O	1:F:1001:PRO:C	2.60	0.42
1:G:433:LEU:N	1:G:434:PRO:CD	2.83	0.42
1:G:474:TRP:CE2	1:G:478:VAL:HG21	2.54	0.42
1:G:763:GLY:O	1:G:838:THR:HG21	2.19	0.42
1:H:74:LEU:HA	1:H:74:LEU:HD23	1.80	0.42
1:H:513:PRO:O	1:H:515:VAL:N	2.51	0.42
1:H:627:PHE:C	1:H:628:GLN:HE21	2.27	0.42
1:H:870:VAL:CG1	1:H:871:GLU:N	2.83	0.42
1:I:323:ILE:CD1	1:I:323:ILE:N	2.82	0.42
1:I:377:LEU:HD22	1:I:708:TRP:HB2	2.00	0.42
1:I:463:GLY:O	1:I:486:TYR:OH	2.28	0.42
1:I:608:PHE:C	1:I:610:ASP:N	2.78	0.42
1:I:695:TRP:NE1	1:I:915:PHE:CD2	2.87	0.42
1:I:777:LEU:HD23	1:I:777:LEU:HA	1.77	0.42
1:J:272:ALA:HA	1:J:273:PRO:HD3	1.90	0.42
1:J:767:GLN:HG3	1:J:768:MET:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:851:ILE:HB	1:J:871:GLU:HB2	2.01	0.42
1:K:166:ARG:HD2	1:K:166:ARG:HA	1.68	0.42
1:K:462:SER:HB2	3:K:1267:HOH:O	2.19	0.42
1:K:486:TYR:CE1	1:K:488:GLY:CA	3.00	0.42
1:K:747:PHE:CE1	1:K:760:ARG:HD3	2.55	0.42
1:K:967:LEU:HD23	1:K:967:LEU:HA	1.72	0.42
1:K:1018:LEU:HD22	1:K:1019:VAL:N	2.34	0.42
1:L:31:PRO:HB3	1:L:32:PRO:HD2	2.01	0.42
1:L:59:ARG:NH2	1:L:81:ALA:CB	2.79	0.42
1:L:385:ASN:HD22	1:L:385:ASN:HA	1.23	0.42
1:L:529:GLU:OE1	1:L:530:THR:N	2.46	0.42
1:L:948:PRO:O	1:L:1022:GLN:HA	2.20	0.42
1:M:114:VAL:CG1	1:M:115:PRO:N	2.82	0.42
1:M:507:ASP:OD1	1:M:521:LYS:HE3	2.20	0.42
1:M:763:GLY:HA3	1:M:822:LEU:CD2	2.50	0.42
1:M:859:ASP:O	1:M:860:GLY:C	2.62	0.42
1:M:942:ARG:HA	1:M:953:GLY:O	2.19	0.42
1:N:353:GLY:C	1:N:566:PHE:HA	2.45	0.42
1:N:658:LEU:HD11	1:N:692:GLY:HA3	2.01	0.42
1:N:679:LEU:HD23	1:N:679:LEU:HA	1.29	0.42
1:O:132:SER:OG	1:O:133:TRP:HD1	2.02	0.42
1:O:281:GLU:OE1	1:O:281:GLU:N	2.45	0.42
1:O:937:LEU:HD12	1:O:957:PHE:C	2.43	0.42
1:P:114:VAL:HG11	1:P:191:TRP:C	2.44	0.42
1:P:160:GLY:HA3	1:P:171:PHE:HE2	1.84	0.42
1:P:391:HIS:CD2	1:P:460:ASN:CB	3.03	0.42
1:P:916:ASP:H	1:P:918:TRP:HE1	1.67	0.42
1:P:923:SER:C	1:P:925:MET:N	2.77	0.42
1:P:949:HIS:HD2	1:P:1020:TRP:CE2	2.37	0.42
1:P:985:ASN:ND2	1:P:985:ASN:N	2.67	0.42
1:A:360:HIS:CE1	1:A:361:PRO:HD2	2.53	0.42
1:A:411:ASP:OD2	1:A:447:ASP:OD2	2.37	0.42
1:A:653:HIS:O	1:A:698:VAL:HA	2.19	0.42
1:B:349:LEU:HD23	1:B:349:LEU:HA	1.71	0.42
1:B:763:GLY:CA	1:B:822:LEU:HD21	2.49	0.42
1:C:49:GLN:H	1:C:49:GLN:HG2	1.53	0.42
1:C:456:TRP:NE1	1:C:482:ARG:HD2	2.34	0.42
1:C:787:ALA:HA	1:C:788:PRO:HD3	1.87	0.42
1:C:916:ASP:HB3	1:C:918:TRP:CZ2	2.55	0.42
1:D:224:ASP:OD1	1:D:225:PHE:N	2.52	0.42
1:D:482:ARG:HA	1:D:483:PRO:HD3	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:584:PRO:O	1:D:585:TRP:HB3	2.18	0.42
1:D:623:GLN:OE1	1:D:623:GLN:HA	2.19	0.42
1:D:625:GLN:HE22	1:D:717:TRP:H	1.67	0.42
1:D:701:VAL:O	1:D:703:PRO:HD3	2.20	0.42
1:E:87:PRO:HB2	1:E:209:PHE:C	2.45	0.42
1:E:966:GLN:O	1:E:967:LEU:C	2.62	0.42
1:F:210:ARG:HH11	1:F:395:HIS:CA	2.31	0.42
1:F:700:VAL:C	1:F:701:VAL:HG23	2.44	0.42
1:F:749:ILE:N	1:F:749:ILE:HD13	2.35	0.42
1:F:767:GLN:HG3	1:F:768:MET:N	2.34	0.42
1:F:825:CYS:O	1:F:826:THR:HG22	2.19	0.42
1:G:269:SER:OG	1:G:270:GLY:N	2.53	0.42
1:G:595:THR:CG2	1:G:596:PRO:HA	2.48	0.42
1:H:424:ASN:HD22	1:H:424:ASN:HA	1.34	0.42
1:H:454:ILE:C	1:H:455:ILE:HG13	2.45	0.42
1:H:834:VAL:O	1:H:857:ARG:HA	2.20	0.42
1:I:27:LEU:HD23	1:I:27:LEU:HA	1.77	0.42
1:I:210:ARG:NH1	1:I:394:ASN:C	2.78	0.42
1:I:338:GLU:O	1:I:338:GLU:HG2	2.20	0.42
1:I:395:HIS:HE1	1:I:397:LEU:HB3	1.82	0.42
1:I:487:GLU:HB3	3:I:1217:HOH:O	2.19	0.42
1:I:510:GLN:N	1:I:511:PRO:HD3	2.35	0.42
1:I:927:THR:HA	1:I:928:PRO:HD2	1.89	0.42
1:J:925:MET:HE3	1:J:925:MET:HB3	1.82	0.42
1:K:126:THR:HG23	1:K:127:PHE:N	2.34	0.42
1:K:173:LEU:HD23	1:K:173:LEU:HA	1.87	0.42
1:K:376:ILE:HG21	1:K:376:ILE:HD13	1.68	0.42
1:K:959:ILE:HG23	1:K:959:ILE:O	2.20	0.42
1:L:6:SER:O	1:L:8:ALA:N	2.52	0.42
1:L:27:LEU:HD12	1:L:140:ARG:HH11	1.83	0.42
1:L:420:MET:HE3	1:L:426:LEU:CD1	2.35	0.42
1:L:949:HIS:CD2	1:L:1020:TRP:CZ2	3.07	0.42
1:M:376:ILE:HG21	1:M:405:TYR:CD2	2.54	0.42
1:M:513:PRO:C	1:M:515:VAL:H	2.27	0.42
1:N:114:VAL:HG22	1:N:115:PRO:CD	2.40	0.42
1:N:261:TRP:HE3	1:N:265:THR:O	2.02	0.42
1:N:906:TYR:CD1	1:N:906:TYR:N	2.86	0.42
1:O:132:SER:N	1:O:135:GLN:NE2	2.67	0.42
1:O:507:ASP:OD1	1:O:521:LYS:HE3	2.19	0.42
1:O:881:ARG:HB3	1:O:990:HIS:CD2	2.54	0.42
1:P:139:THR:HA	1:P:215:LEU:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:204:ARG:HG3	1:P:204:ARG:NH1	2.17	0.42
1:P:900:LEU:HA	1:P:914:CYS:O	2.19	0.42
1:A:202:MET:CE	1:A:392:TYR:CE2	3.02	0.42
1:A:634:GLN:H	1:A:634:GLN:CD	2.27	0.42
1:A:950:GLN:OE1	1:A:952:ARG:NH2	2.52	0.42
1:B:390:SER:CB	1:B:391:HIS:CE1	3.00	0.42
1:B:701:VAL:HG12	1:B:702:GLN:N	2.34	0.42
1:C:473:ARG:NH1	1:C:477:SER:OG	2.52	0.42
1:C:697:THR:OG1	1:C:719:GLN:HB2	2.20	0.42
1:D:51:LEU:HA	1:D:51:LEU:HD12	1.60	0.42
1:D:149:ALA:O	1:D:150:PHE:HB3	2.19	0.42
1:D:210:ARG:HH12	1:D:394:ASN:HA	1.85	0.42
1:D:237:ARG:NH1	1:D:237:ARG:CG	2.83	0.42
1:D:282:ARG:HD3	1:D:282:ARG:HH11	1.65	0.42
1:D:526:LEU:HD23	1:D:526:LEU:HA	1.88	0.42
1:E:131:GLU:O	1:E:134:LEU:HB2	2.19	0.42
1:E:210:ARG:O	1:E:211:ASP:O	2.38	0.42
1:E:410:VAL:HG22	1:E:455:ILE:HB	2.02	0.42
1:E:1022:GLN:C	1:E:1023:LYS:HG2	2.45	0.42
1:F:991:MET:HE2	1:F:991:MET:HB3	1.87	0.42
1:G:44:THR:OG1	1:G:46:ARG:HG2	2.20	0.42
1:G:227:VAL:HG12	1:G:228:ALA:H	1.83	0.42
1:G:476:LYS:HA	1:G:476:LYS:HD2	1.82	0.42
1:G:570:TRP:CD1	1:G:571:VAL:CG2	3.00	0.42
1:G:740:LEU:CG	1:G:741:THR:N	2.82	0.42
1:H:165:SER:O	1:H:166:ARG:HD2	2.18	0.42
1:H:382:ASN:CG	1:H:617:LEU:HD21	2.45	0.42
1:H:433:LEU:N	1:H:434:PRO:HD2	2.34	0.42
1:H:469:ASP:O	1:H:470:ALA:C	2.62	0.42
1:I:10:VAL:O	1:I:13:ARG:HG3	2.19	0.42
1:I:66:PRO:HD2	1:I:67:GLU:OE2	2.20	0.42
1:I:90:TRP:NE1	1:I:96:ASP:OD1	2.52	0.42
1:I:245:GLN:HG2	1:I:288:ARG:CG	2.49	0.42
1:I:300:LEU:H	1:I:300:LEU:HG	1.74	0.42
1:I:910:LEU:HA	3:I:1283:HOH:O	2.20	0.42
1:I:925:MET:HE3	3:I:1271:HOH:O	2.19	0.42
1:J:51:LEU:HD12	1:J:51:LEU:HA	1.81	0.42
1:J:187:MET:HG2	1:J:189:LEU:HD21	2.02	0.42
1:J:271:THR:O	1:J:272:ALA:HB2	2.20	0.42
1:J:424:ASN:O	1:J:426:LEU:N	2.53	0.42
1:J:597:ASN:ND2	1:J:599:ARG:N	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:310:ARG:HG3	1:K:311:ALA:N	2.34	0.42
1:K:857:ARG:NH1	1:K:857:ARG:CG	2.80	0.42
1:K:963:SER:O	1:K:964:GLN:C	2.59	0.42
1:L:262:GLN:NE2	1:L:299:LYS:HD2	2.30	0.42
1:L:540:HIS:HD2	1:L:568:TRP:CD1	2.35	0.42
1:L:557:ARG:NE	1:L:641:GLU:OE2	2.44	0.42
1:M:227:VAL:CG1	1:M:240:LEU:HD11	2.32	0.42
1:M:351:ILE:HA	1:M:385:ASN:HD22	1.85	0.42
1:M:354:VAL:HA	1:M:567:VAL:H	1.84	0.42
1:M:540:HIS:ND1	1:M:998:SER:CB	2.83	0.42
1:M:822:LEU:CD1	1:M:823:LEU:N	2.80	0.42
1:M:962:TYR:CE2	1:M:976:LEU:HB3	2.54	0.42
1:N:73:TRP:CD1	1:N:183:ARG:HH22	2.36	0.42
1:N:366:VAL:HA	3:N:1279:HOH:O	2.20	0.42
1:N:657:ALA:HA	1:N:661:LYS:O	2.19	0.42
1:N:674:PRO:O	1:N:675:GLN:HB2	2.20	0.42
1:N:902:PRO:HD3	1:N:918:TRP:CZ3	2.54	0.42
1:O:36:TRP:CD1	1:O:41:GLU:HB3	2.54	0.42
1:O:251:ARG:CB	1:O:253:TYR:CE1	3.02	0.42
1:O:552:TYR:C	1:O:554:GLN:H	2.27	0.42
1:O:701:VAL:HG12	1:O:702:GLN:N	2.35	0.42
1:O:901:GLY:HA3	1:O:902:PRO:HA	1.89	0.42
1:O:903:GLN:O	1:O:904:GLU:C	2.61	0.42
1:O:972:HIS:O	1:O:973:ARG:C	2.60	0.42
1:P:18:ASN:CB	1:P:21:VAL:HG23	2.49	0.42
1:P:205:MET:HB3	1:P:206:SER:H	1.68	0.42
1:P:240:LEU:HD12	1:P:241:GLU:N	2.32	0.42
1:P:656:VAL:HG21	1:P:685:LEU:HD22	2.01	0.42
1:P:778:THR:HB	1:P:887:GLN:H	1.83	0.42
1:A:359:HIS:CD2	1:A:360:HIS:N	2.88	0.42
1:A:767:GLN:CD	1:A:768:MET:H	2.27	0.42
1:A:768:MET:HG2	1:A:775:GLN:HB2	2.02	0.42
1:A:854:LYS:HA	1:A:867:THR:O	2.19	0.42
1:B:231:PHE:CD1	1:B:231:PHE:N	2.87	0.42
1:B:378:LEU:HD23	1:B:378:LEU:HA	1.84	0.42
1:B:728:VAL:H	1:B:728:VAL:HG22	1.49	0.42
1:B:830:LEU:HB2	1:B:833:ALA:O	2.20	0.42
1:C:810:TRP:CH2	1:C:991:MET:CE	2.98	0.42
1:C:820:ALA:HB2	1:C:842:TRP:NE1	2.35	0.42
1:D:30:HIS:ND1	1:D:31:PRO:O	2.44	0.42
1:D:209:PHE:CD1	1:D:209:PHE:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:572:ASP:OD1	1:D:603:MET:HB3	2.20	0.42
1:D:735:HIS:O	1:D:736:ALA:HB2	2.18	0.42
1:E:123:TYR:O	1:E:124:SER:HB3	2.20	0.42
1:E:249:GLU:HG2	1:E:251:ARG:NH2	2.34	0.42
1:E:734:SER:CB	1:E:860:GLY:HA3	2.49	0.42
1:E:748:CYS:C	1:E:749:ILE:HD12	2.45	0.42
1:E:925:MET:HB3	1:E:925:MET:HE3	1.58	0.42
1:F:28:ALA:O	1:F:30:HIS:HD2	2.03	0.42
1:F:210:ARG:O	1:F:211:ASP:C	2.61	0.42
1:F:347:LYS:CB	1:F:348:PRO:HD2	2.41	0.42
1:F:440:VAL:CG1	1:F:475:ILE:HD11	2.49	0.42
1:F:499:ILE:O	1:F:533:LEU:HB2	2.20	0.42
1:F:682:LEU:HD23	1:F:683:PRO:HD3	2.02	0.42
1:F:802:ASP:HA	1:F:803:PRO:HD2	1.68	0.42
1:F:866:ILE:HG22	1:F:867:THR:H	1.85	0.42
1:G:91:GLN:C	1:G:93:HIS:H	2.28	0.42
1:G:316:HIS:CA	1:G:323:ILE:HD13	2.50	0.42
1:G:354:VAL:O	1:G:354:VAL:HG13	2.20	0.42
1:G:624:GLN:O	1:G:625:GLN:C	2.61	0.42
1:G:815:HIS:H	1:G:815:HIS:CD2	2.38	0.42
1:G:866:ILE:HG13	1:G:1018:LEU:HB3	2.02	0.42
1:G:878:HIS:HB3	1:G:1009:LEU:O	2.20	0.42
1:H:7:LEU:HD12	1:H:74:LEU:HD11	2.01	0.42
1:H:14:ARG:NH1	1:H:16:TRP:CZ2	2.80	0.42
1:H:41:GLU:O	1:H:42:ALA:C	2.60	0.42
1:H:159:VAL:HG22	1:H:176:PHE:CZ	2.54	0.42
1:H:373:VAL:HG12	1:H:377:LEU:HD11	2.01	0.42
1:H:902:PRO:HG3	1:H:918:TRP:CE3	2.55	0.42
1:I:4:THR:HA	1:I:9:VAL:HG11	2.02	0.42
1:I:502:MET:HB3	1:I:536:CYS:SG	2.60	0.42
1:I:576:ILE:CG2	1:I:577:LYS:N	2.78	0.42
1:I:608:PHE:O	1:I:610:ASP:N	2.52	0.42
1:I:921:PRO:O	1:I:922:LEU:C	2.61	0.42
1:J:448:ARG:HH11	1:J:448:ARG:HD3	1.65	0.42
1:J:608:PHE:C	1:J:610:ASP:H	2.28	0.42
1:J:744:GLU:HA	1:J:760:ARG:NH1	2.35	0.42
1:K:696:LEU:HB2	1:K:722:LEU:HD11	2.02	0.42
1:K:815:HIS:H	1:K:815:HIS:HD2	1.68	0.42
1:K:837:THR:HG22	1:K:837:THR:O	2.19	0.42
1:L:413:ALA:HB2	1:L:443:MET:HE1	2.01	0.42
1:L:656:VAL:CG1	1:L:657:ALA:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:810:TRP:HH2	1:L:991:MET:HE2	1.77	0.42
1:M:15:ASP:O	1:M:161:TYR:OH	2.38	0.42
1:M:27:LEU:HB3	1:M:28:ALA:H	1.47	0.42
1:M:210:ARG:HH11	1:M:395:HIS:CA	2.32	0.42
1:M:600:GLN:HE21	1:M:600:GLN:HB2	1.71	0.42
1:M:682:LEU:CB	1:M:683:PRO:HD2	2.42	0.42
1:N:232:ASN:OD1	1:N:237:ARG:O	2.38	0.42
1:N:632:SER:O	1:N:635:THR:N	2.38	0.42
1:N:777:LEU:HG	1:N:889:ALA:CB	2.46	0.42
1:N:778:THR:HB	1:N:887:GLN:HB3	2.01	0.42
1:N:802:ASP:HA	1:N:803:PRO:HD2	1.56	0.42
1:O:78:LEU:HD22	1:O:78:LEU:HA	1.59	0.42
1:O:701:VAL:HG12	1:O:702:GLN:H	1.85	0.42
1:O:822:LEU:HD13	1:O:822:LEU:HA	1.81	0.42
1:P:54:LEU:HD23	1:P:54:LEU:N	2.35	0.42
1:P:655:MET:HG3	1:P:664:ALA:O	2.19	0.42
1:P:697:THR:CG2	1:P:698:VAL:N	2.82	0.42
1:P:836:ILE:HD13	1:P:836:ILE:N	2.35	0.42
1:A:43:ARG:O	1:A:310:ARG:HD3	2.19	0.42
1:A:131:GLU:CB	1:A:135:GLN:NE2	2.82	0.42
1:A:231:PHE:CD1	1:A:231:PHE:N	2.87	0.42
1:A:894:ARG:CZ	1:A:921:PRO:HD3	2.49	0.42
1:B:231:PHE:CD2	1:B:238:ALA:HB2	2.54	0.42
1:B:988:GLY:C	1:B:989:PHE:CD2	2.98	0.42
1:B:1018:LEU:HD23	1:B:1018:LEU:HA	1.66	0.42
1:C:352:ARG:O	1:C:385:ASN:HB2	2.20	0.42
1:C:614:HIS:HB3	1:C:615:PRO:HD2	2.00	0.42
1:D:786:ARG:HD3	1:D:880:ALA:HB1	2.01	0.42
1:E:66:PRO:CD	1:E:67:GLU:H	2.33	0.42
1:E:66:PRO:CD	1:E:67:GLU:HG2	2.42	0.42
1:E:91:GLN:CG	1:E:190:ARG:HH21	2.33	0.42
1:E:210:ARG:NH1	1:E:394:ASN:C	2.78	0.42
1:E:482:ARG:HA	1:E:483:PRO:HD3	1.80	0.42
1:E:668:VAL:HA	1:E:669:PRO:HD3	1.82	0.42
1:E:875:ASP:OD1	1:E:875:ASP:N	2.50	0.42
1:F:308:LEU:HD23	1:F:308:LEU:HA	1.58	0.42
1:F:424:ASN:O	1:F:425:ARG:C	2.61	0.42
1:F:433:LEU:HD12	1:F:433:LEU:C	2.45	0.42
1:F:448:ARG:HH22	1:F:478:VAL:HG12	1.85	0.42
1:F:655:MET:HE2	1:F:662:PRO:HB3	2.02	0.42
1:F:797:GLU:O	1:F:800:ARG:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:211:ASP:OD1	1:G:211:ASP:N	2.53	0.42
1:G:271:THR:HG22	1:G:272:ALA:N	2.35	0.42
1:G:438:GLU:O	1:G:442:ARG:HG3	2.20	0.42
1:G:652:LEU:HD11	1:G:698:VAL:HB	2.02	0.42
1:G:876:THR:O	1:G:877:PRO:C	2.62	0.42
1:H:187:MET:HE3	1:H:189:LEU:HD21	2.02	0.42
1:H:221:GLN:HE21	1:H:221:GLN:HB3	1.58	0.42
1:H:225:PHE:C	1:H:226:HIS:CD2	2.98	0.42
1:H:258:VAL:HA	1:H:312:VAL:O	2.20	0.42
1:H:354:VAL:HA	1:H:567:VAL:H	1.84	0.42
1:H:378:LEU:HA	1:H:378:LEU:HD23	1.82	0.42
1:H:806:TRP:CE2	1:H:991:MET:HE1	2.54	0.42
1:H:836:ILE:CG2	1:H:837:THR:N	2.82	0.42
1:I:284:GLY:O	1:L:422:PRO:HD3	2.20	0.42
1:I:568:TRP:HA	1:I:569:ASP:HA	1.78	0.42
1:I:577:LYS:O	1:I:585:TRP:N	2.52	0.42
1:J:548:GLY:O	1:J:551:LYS:HB2	2.20	0.42
1:J:653:HIS:NE2	1:J:667:GLU:OE2	2.49	0.42
1:J:1005:ALA:C	1:J:1007:PHE:H	2.28	0.42
1:K:3:ILE:O	1:K:6:SER:HB3	2.19	0.42
1:K:377:LEU:HD23	1:K:708:TRP:HA	2.01	0.42
1:K:652:LEU:O	1:K:668:VAL:N	2.42	0.42
1:K:753:ASN:OD1	1:K:753:ASN:N	2.49	0.42
1:L:205:MET:HB3	1:L:206:SER:H	1.50	0.42
1:L:359:HIS:CD2	1:L:359:HIS:C	2.98	0.42
1:L:432:TRP:HZ3	3:L:1224:HOH:O	2.01	0.42
1:L:515:VAL:N	1:L:516:PRO:CD	2.79	0.42
1:L:738:PRO:HA	1:L:751:LEU:CD1	2.49	0.42
1:L:768:MET:HE1	1:L:1022:GLN:HG2	2.01	0.42
1:L:782:ASP:CG	1:L:842:TRP:CH2	2.98	0.42
1:L:804:ASN:O	1:L:805:ALA:C	2.61	0.42
1:M:14:ARG:CG	1:M:14:ARG:NH1	2.82	0.42
1:M:65:ALA:HB1	1:M:67:GLU:CG	2.46	0.42
1:M:115:PRO:C	1:M:117:GLU:N	2.78	0.42
1:M:210:ARG:O	1:M:211:ASP:C	2.63	0.42
1:M:304:GLU:O	1:M:305:ILE:HG12	2.19	0.42
1:M:349:LEU:HD13	1:M:351:ILE:HD11	2.02	0.42
1:M:352:ARG:H	1:M:385:ASN:CB	2.28	0.42
1:M:422:PRO:HG2	1:P:279:ILE:HD11	2.00	0.42
1:M:810:TRP:HZ2	1:M:991:MET:CE	2.32	0.42
1:N:18:ASN:C	1:N:20:GLY:N	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:487:GLU:HG2	1:N:491:ALA:HB2	2.02	0.42
1:N:718:GLN:HA	1:N:718:GLN:OE1	2.19	0.42
1:O:205:MET:O	1:O:206:SER:HB3	2.20	0.42
1:O:338:GLU:O	1:O:341:LEU:HB2	2.19	0.42
1:O:894:ARG:NH2	1:O:921:PRO:HD3	2.34	0.42
1:P:63:PHE:HB2	1:P:120:THR:HB	2.00	0.42
1:P:141:ILE:HG12	1:P:214:LEU:HD23	1.99	0.42
1:P:900:LEU:HB2	1:P:939:CYS:O	2.20	0.42
1:P:952:ARG:O	1:P:1019:VAL:N	2.53	0.42
1:A:422:PRO:HD3	1:D:284:GLY:O	2.20	0.42
1:A:472:TYR:HD1	1:A:484:VAL:CG1	2.33	0.42
1:A:738:PRO:HA	1:A:751:LEU:HD12	2.02	0.42
1:A:856:TYR:CD2	1:A:864:MET:HE2	2.55	0.42
1:B:420:MET:HE2	1:B:420:MET:HB3	1.75	0.42
1:B:782:ASP:OD2	1:B:842:TRP:HH2	2.02	0.42
1:C:149:ALA:O	1:C:150:PHE:HB3	2.19	0.42
1:C:988:GLY:C	1:C:989:PHE:CD2	2.98	0.42
1:D:305:ILE:HD11	1:D:645:ARG:HB3	2.00	0.42
1:D:372:MET:HE2	1:D:398:TRP:HB2	2.02	0.42
1:D:745:MET:HE2	1:D:745:MET:HB3	1.83	0.42
1:E:225:PHE:N	1:E:225:PHE:CD1	2.88	0.42
1:E:284:GLY:C	1:H:422:PRO:HG3	2.45	0.42
1:E:378:LEU:HD23	1:E:378:LEU:HA	1.85	0.42
1:E:502:MET:O	1:E:517:LYS:NZ	2.30	0.42
1:E:653:HIS:NE2	1:E:667:GLU:CD	2.78	0.42
1:F:224:ASP:OD1	1:F:225:PHE:N	2.53	0.42
1:F:787:ALA:HA	1:F:788:PRO:HD3	1.80	0.42
1:F:1005:ALA:O	1:F:1007:PHE:N	2.53	0.42
1:G:118:ASN:HA	1:G:119:PRO:HD2	1.91	0.42
1:G:257:THR:OG1	1:G:316:HIS:HE1	2.02	0.42
1:G:324:GLU:CG	1:G:325:ALA:N	2.82	0.42
1:G:533:LEU:CD1	1:G:534:ILE:N	2.81	0.42
1:G:654:TRP:CZ3	1:G:664:ALA:HB1	2.54	0.42
1:G:685:LEU:HB3	1:G:686:PRO:CD	2.44	0.42
1:G:796:SER:OG	1:G:801:ILE:HA	2.20	0.42
1:G:897:TRP:CH2	1:G:918:TRP:CB	3.01	0.42
1:H:128:ASN:ND2	1:H:180:GLY:HA2	2.35	0.42
1:H:580:GLU:C	1:H:582:GLY:H	2.26	0.42
1:I:84:VAL:HG12	1:I:85:VAL:N	2.34	0.42
1:I:416:GLU:OE2	1:I:418:HIS:HB2	2.20	0.42
1:I:419:GLY:CA	1:L:282:ARG:NH1	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:694:LEU:HA	1:I:694:LEU:HD12	1.83	0.42
1:J:416:GLU:OE2	1:J:418:HIS:HB2	2.20	0.42
1:J:651:LEU:HD12	1:J:652:LEU:H	1.85	0.42
1:K:262:GLN:HE22	1:K:299:LYS:CD	2.22	0.42
1:K:291:LEU:N	1:K:291:LEU:CD1	2.80	0.42
1:K:292:ARG:NH1	1:K:292:ARG:CG	2.81	0.42
1:L:246:MET:C	1:L:246:MET:HE3	2.45	0.42
1:L:354:VAL:HG12	1:L:379:MET:HE2	2.01	0.42
1:L:540:HIS:CD2	1:L:568:TRP:HD1	2.34	0.42
1:L:847:LYS:HG3	1:L:848:THR:N	2.34	0.42
1:L:988:GLY:C	1:L:989:PHE:CD2	2.98	0.42
1:M:111:PRO:HD3	1:M:196:TYR:CE2	2.54	0.42
1:M:164:ASP:OD1	1:M:167:LEU:N	2.51	0.42
1:M:261:TRP:CE3	1:M:265:THR:C	2.98	0.42
1:M:608:PHE:O	1:M:609:ALA:C	2.63	0.42
1:M:901:GLY:HA3	1:M:902:PRO:HA	1.89	0.42
1:M:948:PRO:HD2	1:M:949:HIS:H	1.81	0.42
1:M:950:GLN:HG2	1:M:951:TRP:N	2.32	0.42
1:N:7:LEU:N	1:N:71:GLU:OE2	2.52	0.42
1:N:966:GLN:O	1:N:967:LEU:C	2.63	0.42
1:N:979:GLU:OE1	1:N:983:TRP:NE1	2.45	0.42
1:O:103:VAL:HG22	1:O:418:HIS:CD2	2.55	0.42
1:O:420:MET:HE3	1:O:420:MET:HB3	1.66	0.42
1:O:842:TRP:HZ3	1:O:852:SER:CB	2.31	0.42
1:P:163:GLN:NE2	1:P:193:ASP:OD1	2.50	0.42
1:P:322:LEU:HD21	1:P:324:GLU:C	2.45	0.42
1:P:347:LYS:HB3	1:P:348:PRO:HD2	2.01	0.42
1:P:553:TRP:N	1:P:553:TRP:CD1	2.87	0.42
1:P:652:LEU:HD13	1:P:700:VAL:CG2	2.50	0.42
1:P:811:LYS:O	1:P:812:ALA:C	2.62	0.42
1:P:847:LYS:NZ	1:P:875:ASP:OD1	2.53	0.42
1:A:89:ASN:ND2	1:A:205:MET:HB3	2.34	0.41
1:A:894:ARG:NH1	1:A:920:LEU:C	2.78	0.41
1:B:166:ARG:HG2	1:B:392:TYR:CG	2.53	0.41
1:B:608:PHE:O	1:B:610:ASP:N	2.53	0.41
1:B:683:PRO:O	1:B:685:LEU:HD23	2.20	0.41
1:B:686:PRO:C	1:B:688:PRO:HD3	2.45	0.41
1:B:782:ASP:CB	1:B:842:TRP:CH2	3.03	0.41
1:D:3:ILE:O	1:D:3:ILE:HG13	2.12	0.41
1:D:11:LEU:CD1	1:D:187:MET:HE1	2.50	0.41
1:D:487:GLU:O	1:D:488:GLY:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:894:ARG:NH1	1:D:919:ASP:OD2	2.47	0.41
1:E:253:TYR:N	1:E:253:TYR:CD1	2.80	0.41
1:E:422:PRO:CB	1:H:279:ILE:HD13	2.50	0.41
1:E:501:PRO:O	1:E:535:LEU:HA	2.19	0.41
1:E:653:HIS:CD2	1:E:667:GLU:CB	3.00	0.41
1:F:357:HIS:HE1	1:F:568:TRP:CH2	2.37	0.41
1:F:579:ASP:O	1:F:582:GLY:N	2.40	0.41
1:F:802:ASP:C	1:F:804:ASN:N	2.78	0.41
1:F:843:GLN:HA	1:F:847:LYS:O	2.20	0.41
1:G:403:ASP:CG	1:G:451:PRO:HD2	2.45	0.41
1:G:498:ILE:HG12	1:G:532:PRO:HG2	2.01	0.41
1:G:524:LEU:HD23	1:G:524:LEU:HA	1.68	0.41
1:H:111:PRO:HA	1:H:112:PRO:C	2.43	0.41
1:H:272:ALA:HB1	1:H:273:PRO:HD2	2.02	0.41
1:H:292:ARG:HH11	1:H:292:ARG:HG3	1.85	0.41
1:H:316:HIS:C	1:H:323:ILE:HD13	2.44	0.41
1:H:770:ILE:HD12	1:H:775:GLN:CG	2.49	0.41
1:H:840:HIS:HE1	3:H:1234:HOH:O	2.03	0.41
1:H:927:THR:HA	1:H:928:PRO:HD2	1.71	0.41
1:I:74:LEU:H	1:I:74:LEU:HG	1.66	0.41
1:I:433:LEU:N	1:I:434:PRO:CD	2.82	0.41
1:J:102:ASN:ND2	1:J:102:ASN:C	2.78	0.41
1:J:301:TRP:CE3	1:J:301:TRP:C	2.98	0.41
1:J:742:THR:CG2	1:J:747:PHE:CE1	3.00	0.41
1:J:813:ALA:CB	1:J:815:HIS:HD2	2.33	0.41
1:J:928:PRO:O	1:J:929:TYR:C	2.61	0.41
1:K:254:LEU:HA	1:K:254:LEU:HD23	1.58	0.41
1:K:372:MET:O	1:K:373:VAL:C	2.61	0.41
1:K:796:SER:HA	1:K:800:ARG:O	2.21	0.41
1:K:928:PRO:HB2	1:K:973:ARG:HH11	1.85	0.41
1:L:37:ARG:NH2	1:L:216:HIS:O	2.51	0.41
1:L:502:MET:O	1:L:517:LYS:NZ	2.40	0.41
1:L:513:PRO:O	1:L:515:VAL:N	2.53	0.41
1:L:849:LEU:C	1:L:850:PHE:CD1	2.98	0.41
1:M:9:VAL:O	1:M:10:VAL:C	2.63	0.41
1:M:323:ILE:N	1:M:323:ILE:HD13	2.35	0.41
1:M:354:VAL:HA	1:M:567:VAL:N	2.35	0.41
1:M:503:TYR:CZ	1:M:537:GLU:HB3	2.54	0.41
1:M:612:THR:HA	1:M:613:PRO:HD3	1.69	0.41
1:M:619:GLU:HA	1:M:912:ALA:HB2	2.01	0.41
1:M:890:GLN:CG	1:M:891:VAL:N	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:178:ARG:HG2	1:N:179:ALA:H	1.85	0.41
1:N:367:MET:CB	1:N:372:MET:HE2	2.48	0.41
1:N:573:GLN:HB2	1:N:602:CYS:O	2.20	0.41
1:N:599:ARG:HB2	1:N:600:GLN:H	1.67	0.41
1:N:606:LEU:HB3	1:N:617:LEU:HD13	2.02	0.41
1:O:100:TYR:CD1	1:O:100:TYR:C	2.97	0.41
1:O:129:VAL:HG23	1:O:182:ASN:ND2	2.34	0.41
1:O:154:CYS:O	1:O:155:ASN:C	2.63	0.41
1:O:454:ILE:HG13	1:O:455:ILE:CG1	2.42	0.41
1:O:485:GLN:NE2	3:O:1255:HOH:O	2.36	0.41
1:O:535:LEU:O	1:O:565:GLY:HA2	2.20	0.41
1:O:916:ASP:HB3	1:O:918:TRP:CZ2	2.55	0.41
1:P:253:TYR:CA	1:P:255:ARG:NH1	2.79	0.41
1:P:377:LEU:O	1:P:380:LYS:HB2	2.20	0.41
1:P:601:PHE:CZ	1:P:795:VAL:CG1	3.02	0.41
1:P:608:PHE:C	1:P:610:ASP:N	2.78	0.41
1:P:627:PHE:C	1:P:628:GLN:HG2	2.45	0.41
1:P:801:ILE:HG12	1:P:808:GLU:CD	2.45	0.41
1:A:234:ASP:OD1	1:A:234:ASP:N	2.52	0.41
1:A:485:GLN:NE2	3:A:1256:HOH:O	2.53	0.41
1:A:533:LEU:O	1:A:534:ILE:HG13	2.21	0.41
1:A:786:ARG:HH11	1:A:990:HIS:CE1	2.38	0.41
1:B:202:MET:CE	1:B:357:HIS:CD2	2.99	0.41
1:B:323:ILE:N	1:B:323:ILE:CD1	2.84	0.41
1:B:745:MET:O	1:B:746:ASP:HB3	2.20	0.41
1:B:897:TRP:CH2	1:B:918:TRP:HB2	2.55	0.41
1:B:927:THR:HG21	1:B:929:TYR:CE2	2.55	0.41
1:C:363:HIS:CD2	1:C:363:HIS:N	2.84	0.41
1:C:657:ALA:HA	1:C:661:LYS:O	2.20	0.41
1:C:950:GLN:HG3	1:C:951:TRP:N	2.35	0.41
1:D:210:ARG:NH1	1:D:358:GLU:OE1	2.52	0.41
1:D:492:ASP:OD1	1:D:492:ASP:N	2.47	0.41
1:D:934:GLU:OE2	1:D:935:ASN:N	2.53	0.41
1:E:59:ARG:NH2	1:E:78:LEU:O	2.53	0.41
1:E:100:TYR:HB2	1:E:203:TRP:CD2	2.55	0.41
1:E:114:VAL:HG13	1:E:191:TRP:HB2	2.02	0.41
1:E:146:VAL:HG22	1:E:208:ILE:HG12	2.03	0.41
1:E:199:ASP:OD2	1:E:419:GLY:N	2.52	0.41
1:E:265:THR:HG22	1:E:267:VAL:HG23	2.02	0.41
1:E:585:TRP:CD1	1:E:585:TRP:H	2.38	0.41
1:E:783:GLN:NE2	3:E:1282:HOH:O	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:LEU:HD22	1:F:153:TRP:CE2	2.55	0.41
1:F:91:GLN:C	1:F:93:HIS:N	2.78	0.41
1:F:147:ASN:HA	1:F:148:SER:HA	1.52	0.41
1:F:422:PRO:HB3	1:G:280:ASP:OD1	2.19	0.41
1:F:878:HIS:HA	1:F:879:PRO:HD3	1.94	0.41
1:H:91:GLN:C	1:H:93:HIS:N	2.78	0.41
1:H:218:PRO:HG2	1:H:324:GLU:HB2	2.01	0.41
1:H:285:TYR:HB2	1:H:288:ARG:HB2	2.01	0.41
1:H:388:ARG:HH11	1:H:388:ARG:HD3	1.70	0.41
1:H:742:THR:HG23	1:H:747:PHE:CE1	2.55	0.41
1:H:866:ILE:N	1:H:1018:LEU:O	2.49	0.41
1:I:197:LEU:C	1:I:198:GLU:HG3	2.45	0.41
1:I:520:ILE:H	1:I:520:ILE:HG23	1.46	0.41
1:J:533:LEU:HD13	1:J:533:LEU:C	2.45	0.41
1:K:533:LEU:HD12	1:K:534:ILE:H	1.81	0.41
1:K:639:THR:OG1	1:K:677:LYS:HG2	2.20	0.41
1:K:955:PHE:CD1	1:K:955:PHE:N	2.88	0.41
1:K:997:ASP:HB2	1:K:999:TRP:CZ2	2.55	0.41
1:L:418:HIS:HA	1:L:423:MET:HG3	2.02	0.41
1:L:894:ARG:HE	1:L:921:PRO:HD3	1.85	0.41
1:L:899:GLY:HA2	1:L:915:PHE:CE2	2.55	0.41
1:L:948:PRO:CG	1:L:949:HIS:ND1	2.80	0.41
1:M:36:TRP:CD2	1:M:42:ALA:HB2	2.55	0.41
1:M:38:ASN:O	1:M:39:SER:C	2.61	0.41
1:M:73:TRP:O	1:M:183:ARG:NH2	2.51	0.41
1:M:244:VAL:CG1	1:M:245:GLN:N	2.82	0.41
1:M:310:ARG:HA	1:M:328:CYS:O	2.19	0.41
1:M:472:TYR:O	1:M:476:LYS:HG2	2.21	0.41
1:M:615:PRO:HG2	1:M:929:TYR:OH	2.20	0.41
1:N:102:ASN:C	1:N:102:ASN:ND2	2.77	0.41
1:N:120:THR:CG2	1:N:121:GLY:N	2.82	0.41
1:N:176:PHE:C	1:N:177:LEU:O	2.61	0.41
1:N:319:ASP:OD1	1:N:321:THR:N	2.51	0.41
1:N:557:ARG:NE	1:N:641:GLU:OE2	2.51	0.41
1:N:650:GLU:HB3	1:N:670:LEU:CB	2.48	0.41
1:N:967:LEU:HA	1:N:967:LEU:HD23	1.79	0.41
1:O:69:VAL:HA	1:O:70:PRO:HD3	1.72	0.41
1:O:451:PRO:O	1:O:452:SER:C	2.62	0.41
1:O:658:LEU:N	1:O:661:LYS:O	2.45	0.41
1:O:736:ALA:O	1:O:737:ILE:HG22	2.21	0.41
1:O:1016:TYR:N	1:O:1016:TYR:CD1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:157:ARG:O	1:P:159:VAL:HG23	2.20	0.41
1:P:258:VAL:HA	1:P:312:VAL:O	2.20	0.41
1:P:271:THR:HG22	1:P:272:ALA:N	2.35	0.41
1:P:301:TRP:HB2	1:P:307:ASN:O	2.20	0.41
1:P:436:MET:HE3	1:P:436:MET:HB3	1.87	0.41
1:P:546:LEU:HD12	1:P:546:LEU:HA	1.78	0.41
1:P:749:ILE:HD13	1:P:749:ILE:N	2.32	0.41
1:P:843:GLN:HE21	1:P:843:GLN:HB2	1.70	0.41
1:A:24:LEU:HB2	1:A:161:TYR:HB3	2.02	0.41
1:A:135:GLN:C	1:A:136:GLU:HG2	2.45	0.41
1:A:347:LYS:HA	1:A:348:PRO:HD3	1.84	0.41
1:A:634:GLN:CD	1:A:634:GLN:N	2.79	0.41
1:A:708:TRP:CD1	1:A:708:TRP:N	2.87	0.41
1:A:837:THR:O	1:A:837:THR:HG22	2.20	0.41
1:A:842:TRP:C	1:A:843:GLN:HG2	2.45	0.41
1:B:374:GLN:O	1:B:375:ASP:C	2.62	0.41
1:B:619:GLU:HG2	1:B:909:ARG:HG3	2.01	0.41
1:B:637:GLU:HA	1:B:679:LEU:HD23	2.01	0.41
1:C:60:PHE:CG	1:C:61:ALA:N	2.88	0.41
1:C:347:LYS:HA	1:C:348:PRO:HD3	1.90	0.41
1:C:358:GLU:HB3	1:C:367:MET:CG	2.51	0.41
1:C:647:SER:N	3:C:1277:HOH:O	2.52	0.41
1:C:740:LEU:HD12	1:C:741:THR:N	2.34	0.41
1:D:18:ASN:ND2	1:D:21:VAL:CG2	2.81	0.41
1:D:129:VAL:CG2	1:D:182:ASN:ND2	2.80	0.41
1:D:309:TYR:O	1:D:330:VAL:N	2.44	0.41
1:D:433:LEU:N	1:D:434:PRO:HD2	2.35	0.41
1:D:736:ALA:O	1:D:737:ILE:HG22	2.19	0.41
1:E:146:VAL:HG11	1:E:150:PHE:CG	2.55	0.41
1:E:866:ILE:HG22	1:E:867:THR:H	1.85	0.41
1:E:878:HIS:HA	1:E:879:PRO:HD3	1.92	0.41
1:E:881:ARG:HD3	1:E:987:ASP:OD1	2.20	0.41
1:F:227:VAL:CG1	1:F:228:ALA:N	2.82	0.41
1:F:369:GLU:O	1:F:372:MET:HB2	2.19	0.41
1:F:403:ASP:CG	1:F:451:PRO:HD2	2.45	0.41
1:F:518:TRP:O	1:F:519:SER:C	2.63	0.41
1:F:612:THR:HA	1:F:613:PRO:HD3	1.81	0.41
1:G:97:ALA:HA	1:G:98:PRO:HD3	1.94	0.41
1:G:166:ARG:HA	1:G:166:ARG:HD2	1.75	0.41
1:G:367:MET:HE3	1:G:367:MET:HB3	1.83	0.41
1:G:373:VAL:O	1:G:377:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:465:GLY:O	1:G:468:HIS:HB2	2.21	0.41
1:G:572:ASP:HB3	1:G:603:MET:HG2	2.03	0.41
1:G:996:ASP:H	1:G:1002:SER:HB3	1.86	0.41
1:H:110:ASN:HD22	1:H:113:PHE:HB2	1.85	0.41
1:I:67:GLU:H	1:I:67:GLU:HG2	1.51	0.41
1:I:132:SER:O	1:I:134:LEU:N	2.53	0.41
1:I:258:VAL:HG12	1:I:293:LEU:HD11	2.02	0.41
1:I:349:LEU:HD13	1:I:351:ILE:HD11	2.03	0.41
1:I:377:LEU:HD22	1:I:708:TRP:CB	2.51	0.41
1:I:437:SER:HA	1:I:471:LEU:HD21	2.02	0.41
1:I:920:LEU:HB3	1:I:921:PRO:HD2	2.01	0.41
1:J:70:PRO:C	1:J:72:SER:N	2.79	0.41
1:J:309:TYR:O	1:J:330:VAL:N	2.41	0.41
1:J:500:CYS:HA	1:J:534:ILE:O	2.20	0.41
1:J:533:LEU:HD13	1:J:534:ILE:N	2.34	0.41
1:K:37:ARG:NH2	1:K:217:LYS:HA	2.35	0.41
1:K:66:PRO:CG	1:K:67:GLU:H	2.32	0.41
1:K:338:GLU:O	1:K:339:ASN:C	2.63	0.41
1:K:339:ASN:C	1:K:341:LEU:N	2.77	0.41
1:K:759:ASN:OD1	1:K:760:ARG:N	2.53	0.41
1:L:65:ALA:HB1	1:L:66:PRO:HD2	2.02	0.41
1:L:300:LEU:CD1	1:L:345:ASN:HD22	2.33	0.41
1:L:542:MET:HE3	1:L:601:PHE:HA	2.01	0.41
1:L:559:TYR:N	1:L:559:TYR:CD1	2.88	0.41
1:L:957:PHE:CD1	1:L:958:ASN:N	2.89	0.41
1:L:984:LEU:CD2	1:L:986:ILE:HG13	2.50	0.41
1:M:100:TYR:HB2	1:M:203:TRP:CZ3	2.55	0.41
1:M:114:VAL:HG21	1:M:192:SER:N	2.36	0.41
1:M:164:ASP:HA	3:M:1232:HOH:O	2.20	0.41
1:M:301:TRP:HD1	1:M:308:LEU:HD23	1.84	0.41
1:M:406:GLY:O	1:M:407:LEU:HD23	2.21	0.41
1:M:552:TYR:O	1:M:553:TRP:C	2.62	0.41
1:M:755:ARG:HH11	1:M:755:ARG:HD2	1.67	0.41
1:M:802:ASP:C	1:M:804:ASN:N	2.78	0.41
1:M:974:HIS:CE1	1:M:975:LEU:CD2	3.00	0.41
1:N:60:PHE:O	1:N:61:ALA:HB2	2.21	0.41
1:N:301:TRP:CE3	1:N:301:TRP:C	2.98	0.41
1:N:575:LEU:O	1:N:587:ALA:N	2.38	0.41
1:N:606:LEU:HD23	1:N:606:LEU:HA	1.79	0.41
1:N:758:PHE:O	1:N:759:ASN:C	2.64	0.41
1:N:832:ASP:OD1	1:N:832:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:147:ASN:HA	1:O:165:SER:HB3	2.03	0.41
1:O:501:PRO:HA	3:O:1242:HOH:O	2.20	0.41
1:P:15:ASP:C	1:P:17:GLU:N	2.78	0.41
1:P:102:ASN:ND2	1:P:201:ASP:CB	2.80	0.41
1:P:118:ASN:O	1:P:119:PRO:C	2.63	0.41
1:P:277:GLU:O	1:P:278:ILE:C	2.59	0.41
1:P:485:GLN:O	1:P:486:TYR:HB2	2.21	0.41
1:P:502:MET:O	1:P:503:TYR:HB2	2.21	0.41
1:P:998:SER:N	1:P:999:TRP:CE3	2.85	0.41
1:A:84:VAL:HG12	1:A:85:VAL:N	2.35	0.41
1:A:322:LEU:HD23	1:A:324:GLU:N	2.34	0.41
1:A:425:ARG:HH22	1:D:287:ASP:CG	2.28	0.41
1:A:600:GLN:H	1:A:600:GLN:HG3	1.49	0.41
1:A:747:PHE:CZ	1:A:760:ARG:NE	2.88	0.41
1:B:100:TYR:CD2	1:B:100:TYR:C	2.99	0.41
1:B:237:ARG:CG	1:B:237:ARG:HH11	2.33	0.41
1:B:301:TRP:HD1	1:B:307:ASN:O	2.03	0.41
1:B:651:LEU:HD13	1:B:651:LEU:HA	1.43	0.41
1:B:768:MET:CE	1:B:1022:GLN:NE2	2.82	0.41
1:C:234:ASP:C	1:C:235:PHE:CD1	2.99	0.41
1:C:234:ASP:OD1	1:C:234:ASP:N	2.53	0.41
1:C:580:GLU:HB2	1:C:581:ASN:H	1.69	0.41
1:D:73:TRP:HZ2	1:D:123:TYR:O	2.03	0.41
1:D:141:ILE:HG23	1:D:143:PHE:CE1	2.56	0.41
1:D:538:TYR:O	1:D:567:VAL:HA	2.20	0.41
1:D:875:ASP:N	1:D:875:ASP:OD1	2.53	0.41
1:D:920:LEU:CB	1:D:921:PRO:CD	2.98	0.41
1:D:931:PHE:CD1	1:D:931:PHE:C	2.99	0.41
1:E:50:GLN:CD	1:E:50:GLN:N	2.79	0.41
1:E:69:VAL:CG1	1:E:70:PRO:CD	2.98	0.41
1:E:252:ASP:CG	1:E:253:TYR:N	2.78	0.41
1:E:325:ALA:C	1:E:326:GLU:HG2	2.45	0.41
1:E:372:MET:HE1	1:E:395:HIS:CG	2.56	0.41
1:E:515:VAL:N	1:E:516:PRO:CD	2.83	0.41
1:F:187:MET:O	1:F:187:MET:HG2	2.20	0.41
1:G:131:GLU:C	1:G:133:TRP:N	2.78	0.41
1:G:254:LEU:HA	1:G:254:LEU:HD23	1.75	0.41
1:G:767:GLN:CD	1:G:768:MET:N	2.78	0.41
1:G:789:LEU:O	1:G:790:ASP:C	2.62	0.41
1:G:890:GLN:O	1:G:891:VAL:HG23	2.20	0.41
1:G:977:HIS:CD2	1:G:977:HIS:C	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:71:GLU:HG3	1:H:74:LEU:HD12	2.02	0.41
1:H:936:GLY:HA2	1:H:938:ARG:NH2	2.35	0.41
1:H:1013:ARG:HG3	1:H:1013:ARG:NH1	2.34	0.41
1:I:102:ASN:ND2	1:I:102:ASN:C	2.79	0.41
1:I:272:ALA:HB1	1:I:273:PRO:HD2	2.03	0.41
1:I:279:ILE:HD11	1:L:422:PRO:CG	2.40	0.41
1:I:788:PRO:HG3	1:I:807:VAL:HG23	2.01	0.41
1:J:227:VAL:HG11	1:J:240:LEU:HD11	2.00	0.41
1:J:232:ASN:C	1:J:234:ASP:N	2.78	0.41
1:J:287:ASP:CG	1:K:425:ARG:NH2	2.79	0.41
1:J:698:VAL:CG2	1:J:720:TRP:CZ3	3.03	0.41
1:J:943:GLU:HA	1:J:951:TRP:O	2.20	0.41
1:J:1011:ALA:HB3	1:J:1014:TYR:CZ	2.56	0.41
1:K:17:GLU:OE1	1:K:113:PHE:HD1	2.04	0.41
1:K:62:TRP:C	1:K:63:PHE:CD1	2.99	0.41
1:K:197:LEU:HD22	1:K:415:ILE:CG2	2.44	0.41
1:K:524:LEU:HA	1:K:524:LEU:HD23	1.78	0.41
1:K:600:GLN:HG3	1:K:600:GLN:H	0.97	0.41
1:K:693:GLN:HB3	1:K:695:TRP:HE1	1.85	0.41
1:L:316:HIS:HA	1:L:323:ILE:HD12	2.02	0.41
1:L:810:TRP:CZ2	1:L:991:MET:CE	2.99	0.41
1:L:1011:ALA:HB3	1:L:1014:TYR:CZ	2.55	0.41
1:M:31:PRO:CG	1:M:225:PHE:CE1	3.02	0.41
1:M:256:VAL:CG2	1:M:274:PHE:CE1	2.99	0.41
1:M:433:LEU:CA	1:M:467:ASN:HD22	2.33	0.41
1:M:542:MET:HE2	1:M:600:GLN:HE21	1.85	0.41
1:M:577:LYS:HD2	1:M:592:PHE:CZ	2.56	0.41
1:M:746:ASP:CA	1:M:760:ARG:HG3	2.49	0.41
1:M:778:THR:OG1	1:M:887:GLN:HB3	2.19	0.41
1:M:881:ARG:NH2	1:M:934:GLU:OE1	2.51	0.41
1:N:407:LEU:HD23	1:N:407:LEU:HA	1.73	0.41
1:N:717:TRP:CD1	1:N:717:TRP:C	2.97	0.41
1:N:950:GLN:HE21	1:N:1023:LYS:HE3	1.84	0.41
1:N:1022:GLN:CD	1:N:1022:GLN:N	2.78	0.41
1:O:702:GLN:O	1:O:712:GLY:N	2.52	0.41
1:P:225:PHE:CB	1:P:244:VAL:HG13	2.32	0.41
1:P:253:TYR:N	1:P:253:TYR:CD1	2.87	0.41
1:P:652:LEU:HD12	1:P:653:HIS:H	1.85	0.41
1:P:685:LEU:CB	1:P:686:PRO:CD	2.99	0.41
1:P:782:ASP:HB2	1:P:842:TRP:CZ2	2.55	0.41
1:A:569:ASP:O	1:A:605:GLY:HA2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:807:VAL:CG1	1:A:808:GLU:N	2.80	0.41
1:A:988:GLY:C	1:A:989:PHE:CG	2.98	0.41
1:B:141:ILE:HG13	1:B:214:LEU:HD23	2.03	0.41
1:B:1003:VAL:HA	3:B:1274:HOH:O	2.20	0.41
1:C:254:LEU:C	1:C:255:ARG:HD3	2.44	0.41
1:D:78:LEU:HA	1:D:79:PRO:HD3	1.90	0.41
1:D:217:LYS:HD3	1:D:221:GLN:HB2	2.01	0.41
1:D:441:THR:HG22	1:D:474:TRP:CH2	2.56	0.41
1:D:1005:ALA:C	1:D:1007:PHE:H	2.28	0.41
1:E:18:ASN:OD1	1:E:19:PRO:HD2	2.20	0.41
1:E:107:ILE:HG12	1:E:108:THR:N	2.31	0.41
1:E:418:HIS:CE1	1:E:461:GLU:CD	2.99	0.41
1:F:921:PRO:C	1:F:923:SER:N	2.78	0.41
1:G:285:TYR:HB2	1:G:288:ARG:HB2	2.01	0.41
1:G:425:ARG:HH11	1:G:425:ARG:HD2	1.69	0.41
1:G:608:PHE:C	1:G:610:ASP:N	2.78	0.41
1:G:927:THR:HA	1:G:928:PRO:HD3	1.66	0.41
1:H:18:ASN:ND2	1:H:21:VAL:CG2	2.79	0.41
1:H:568:TRP:HA	1:H:569:ASP:HA	1.80	0.41
1:H:806:TRP:O	1:H:809:ARG:N	2.52	0.41
1:H:962:TYR:CE2	1:H:976:LEU:HB3	2.56	0.41
1:I:100:TYR:CD2	1:I:100:TYR:C	2.99	0.41
1:I:111:PRO:HA	1:I:112:PRO:HA	1.64	0.41
1:I:225:PHE:C	1:I:226:HIS:CD2	2.98	0.41
1:I:256:VAL:HG23	1:I:274:PHE:CE1	2.55	0.41
1:I:433:LEU:CB	1:I:434:PRO:HD3	2.44	0.41
1:I:440:VAL:CG1	1:I:475:ILE:HD11	2.51	0.41
1:I:610:ASP:O	1:I:611:ARG:HB2	2.21	0.41
1:I:714:ILE:N	1:I:714:ILE:HD13	2.33	0.41
1:I:894:ARG:NH1	1:I:919:ASP:C	2.79	0.41
1:J:60:PHE:CG	1:J:61:ALA:N	2.88	0.41
1:J:397:LEU:HD12	1:J:397:LEU:O	2.20	0.41
1:J:965:GLN:O	1:J:966:GLN:C	2.60	0.41
1:J:988:GLY:C	1:J:989:PHE:CD2	2.98	0.41
1:K:643:LEU:HD23	1:K:643:LEU:HA	1.74	0.41
1:L:38:ASN:O	1:L:39:SER:C	2.62	0.41
1:L:217:LYS:NZ	1:L:324:GLU:CD	2.79	0.41
1:L:240:LEU:HD23	1:L:293:LEU:HD12	2.01	0.41
1:L:789:LEU:N	1:L:792:ASP:OD1	2.52	0.41
1:L:930:VAL:HA	1:L:973:ARG:HB3	2.03	0.41
1:M:83:THR:O	1:M:83:THR:HG22	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:100:TYR:CD1	1:M:100:TYR:C	2.98	0.41
1:M:141:ILE:HG12	1:M:143:PHE:CE1	2.54	0.41
1:M:279:ILE:HD11	1:P:424:ASN:CB	2.44	0.41
1:M:370:GLN:O	1:M:371:THR:C	2.64	0.41
1:M:423:MET:CG	1:P:282:ARG:HG3	2.49	0.41
1:M:908:ASP:HB3	1:M:1007:PHE:CG	2.56	0.41
1:M:984:LEU:HD12	1:M:984:LEU:HA	1.39	0.41
1:M:988:GLY:C	1:M:989:PHE:CG	2.98	0.41
1:N:205:MET:O	1:N:206:SER:HB3	2.21	0.41
1:N:500:CYS:HA	1:N:534:ILE:O	2.20	0.41
1:N:524:LEU:HD23	1:N:524:LEU:HA	1.64	0.41
1:N:764:PHE:O	1:N:765:LEU:C	2.63	0.41
1:N:827:ALA:HB2	1:N:836:ILE:CD1	2.50	0.41
1:N:876:THR:O	1:N:877:PRO:C	2.64	0.41
1:O:84:VAL:CG1	1:O:85:VAL:N	2.83	0.41
1:O:123:TYR:HD1	1:O:123:TYR:H	1.68	0.41
1:O:373:VAL:O	1:O:374:GLN:C	2.63	0.41
1:O:464:HIS:HB2	1:O:489:GLY:HA3	2.01	0.41
1:O:524:LEU:HD23	1:O:524:LEU:HA	1.85	0.41
1:O:536:CYS:C	1:O:537:GLU:HG3	2.45	0.41
1:O:910:LEU:C	1:O:910:LEU:HD12	2.45	0.41
1:O:920:LEU:CB	1:O:921:PRO:CD	2.99	0.41
1:P:18:ASN:ND2	1:P:21:VAL:CG2	2.79	0.41
1:P:359:HIS:CD2	1:P:359:HIS:C	2.99	0.41
1:P:392:TYR:HB2	1:P:393:PRO:CD	2.51	0.41
1:P:503:TYR:CZ	1:P:537:GLU:HB3	2.55	0.41
1:P:526:LEU:HD23	1:P:526:LEU:HA	1.81	0.41
1:P:548:GLY:HA3	3:P:1228:HOH:O	2.21	0.41
1:P:559:TYR:N	1:P:559:TYR:HD1	2.18	0.41
1:P:654:TRP:CE3	1:P:654:TRP:C	2.98	0.41
1:P:698:VAL:O	1:P:698:VAL:HG23	2.19	0.41
1:P:837:THR:O	1:P:837:THR:HG22	2.20	0.41
1:A:69:VAL:HA	1:A:70:PRO:HD3	1.83	0.41
1:A:258:VAL:HG23	1:A:291:LEU:HD22	2.02	0.41
1:A:780:LEU:HA	1:A:780:LEU:HD12	1.78	0.41
1:A:869:ASP:OD1	1:A:1015:HIS:ND1	2.53	0.41
1:A:1018:LEU:HD22	1:A:1018:LEU:C	2.45	0.41
1:A:1022:GLN:OE1	1:A:1022:GLN:N	2.53	0.41
1:B:279:ILE:CD1	1:C:422:PRO:HG2	2.51	0.41
1:B:382:ASN:O	1:B:383:ASN:HB2	2.20	0.41
1:B:533:LEU:HD12	1:B:533:LEU:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:670:LEU:HA	1:B:670:LEU:HD23	1.22	0.41
1:C:6:SER:O	1:C:9:VAL:N	2.53	0.41
1:C:139:THR:HG21	1:C:177:LEU:HD11	2.03	0.41
1:C:646:HIS:NE2	1:C:671:ASP:OD1	2.48	0.41
1:C:653:HIS:O	1:C:698:VAL:HA	2.21	0.41
1:C:802:ASP:C	1:C:804:ASN:N	2.78	0.41
1:C:807:VAL:O	1:C:811:LYS:HG3	2.20	0.41
1:D:62:TRP:CE3	1:D:62:TRP:C	2.98	0.41
1:D:657:ALA:HA	1:D:661:LYS:O	2.20	0.41
1:D:822:LEU:HD13	1:D:822:LEU:HA	1.72	0.41
1:E:7:LEU:HB2	1:E:71:GLU:OE2	2.20	0.41
1:F:235:PHE:CD1	1:F:235:PHE:N	2.88	0.41
1:F:372:MET:O	1:F:376:ILE:HG13	2.20	0.41
1:F:396:PRO:O	1:F:397:LEU:C	2.62	0.41
1:F:499:ILE:HG22	1:F:501:PRO:HD3	2.03	0.41
1:F:579:ASP:OD2	1:F:583:ASN:HB2	2.20	0.41
1:F:663:LEU:HD12	1:F:694:LEU:HD11	2.01	0.41
1:F:695:TRP:NE1	1:F:915:PHE:CE2	2.88	0.41
1:F:742:THR:CG2	1:F:743:SER:N	2.80	0.41
1:F:859:ASP:C	1:F:861:SER:N	2.79	0.41
1:G:526:LEU:HD23	1:G:526:LEU:HA	1.94	0.41
1:G:645:ARG:NH2	1:G:650:GLU:OE1	2.53	0.41
1:G:881:ARG:HD3	1:G:987:ASP:CG	2.45	0.41
1:H:91:GLN:HB3	1:H:96:ASP:O	2.20	0.41
1:H:209:PHE:CD1	1:H:209:PHE:N	2.89	0.41
1:H:485:GLN:HA	1:H:496:THR:OG1	2.21	0.41
1:H:932:PRO:O	1:H:933:SER:HB3	2.21	0.41
1:H:936:GLY:O	1:H:938:ARG:NE	2.48	0.41
1:I:524:LEU:HD13	1:I:561:ARG:CB	2.50	0.41
1:J:173:LEU:HD23	1:J:173:LEU:HA	1.78	0.41
1:J:263:GLY:C	1:J:265:THR:N	2.78	0.41
1:J:355:ASN:ND2	1:J:566:PHE:HB3	2.35	0.41
1:J:514:ALA:C	1:J:516:PRO:HD3	2.46	0.41
1:J:619:GLU:HA	1:J:619:GLU:OE1	2.20	0.41
1:J:863:GLN:HG2	1:J:1021:CYS:HB3	2.02	0.41
1:J:925:MET:HB3	3:J:1274:HOH:O	2.20	0.41
1:K:141:ILE:HA	1:K:213:SER:O	2.20	0.41
1:K:559:TYR:CG	1:K:562:LEU:HD12	2.55	0.41
1:K:581:ASN:HB2	1:K:583:ASN:ND2	2.36	0.41
1:K:808:GLU:OE1	1:K:808:GLU:HA	2.20	0.41
1:L:30:HIS:O	1:L:31:PRO:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:100:TYR:CD2	1:L:602:CYS:HB3	2.54	0.41
1:L:608:PHE:C	1:L:610:ASP:H	2.29	0.41
1:L:773:LYS:H	1:L:773:LYS:HG3	1.60	0.41
1:M:27:LEU:HD13	1:M:140:ARG:NH2	2.36	0.41
1:M:36:TRP:CD1	1:M:41:GLU:HB3	2.55	0.41
1:M:230:ARG:C	1:M:231:PHE:CD1	2.99	0.41
1:M:377:LEU:CD2	1:M:708:TRP:CB	2.99	0.41
1:M:430:PRO:O	1:M:433:LEU:N	2.53	0.41
1:M:866:ILE:HG22	1:M:867:THR:N	2.36	0.41
1:M:908:ASP:OD1	1:M:993:ILE:HG12	2.21	0.41
1:M:936:GLY:O	1:M:937:LEU:C	2.64	0.41
1:N:64:PRO:O	1:N:118:ASN:C	2.64	0.41
1:N:426:LEU:HD23	1:N:426:LEU:HA	1.92	0.41
1:N:501:PRO:HB2	1:N:504:ALA:HB2	2.02	0.41
1:N:806:TRP:CH2	1:N:809:ARG:NH2	2.89	0.41
1:O:30:HIS:HB2	1:O:31:PRO:CD	2.51	0.41
1:O:62:TRP:C	1:O:62:TRP:CE3	2.99	0.41
1:O:309:TYR:CD2	1:O:332:PHE:HE1	2.39	0.41
1:O:721:ARG:HH11	1:O:721:ARG:HD3	1.66	0.41
1:O:740:LEU:CD1	1:O:749:ILE:CD1	2.99	0.41
1:O:763:GLY:HA3	1:O:822:LEU:CD2	2.51	0.41
1:O:781:ARG:O	1:O:884:LEU:HA	2.21	0.41
1:O:786:ARG:NH2	1:O:792:ASP:OD1	2.53	0.41
1:O:879:PRO:O	1:O:1009:LEU:HD12	2.21	0.41
1:O:920:LEU:HB3	1:O:921:PRO:CD	2.43	0.41
1:P:16:TRP:CD1	1:P:17:GLU:CG	2.98	0.41
1:P:401:LEU:HD23	1:P:401:LEU:HA	1.89	0.41
1:P:897:TRP:CZ2	1:P:918:TRP:CB	3.04	0.41
1:P:919:ASP:C	1:P:920:LEU:HD23	2.45	0.41
1:P:927:THR:HG22	1:P:929:TYR:CE2	2.54	0.41
1:P:1013:ARG:CG	1:P:1013:ARG:NH1	2.80	0.41
1:A:44:THR:OG1	1:A:46:ARG:HG3	2.21	0.41
1:A:65:ALA:O	1:A:66:PRO:C	2.64	0.41
1:A:391:HIS:NE2	1:A:460:ASN:ND2	2.69	0.41
1:A:419:GLY:O	1:D:282:ARG:NH1	2.54	0.41
1:A:658:LEU:HD12	1:A:658:LEU:HA	1.74	0.41
1:A:736:ALA:C	1:A:737:ILE:HG22	2.46	0.41
1:B:100:TYR:CD1	1:B:602:CYS:HB3	2.55	0.41
1:B:128:ASN:ND2	1:B:180:GLY:CA	2.80	0.41
1:B:237:ARG:CD	1:B:296:GLU:CG	2.99	0.41
1:B:317:THR:O	1:B:318:ALA:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:472:TYR:CZ	1:B:476:LYS:HE2	2.55	0.41
1:C:200:GLN:HB2	1:C:202:MET:SD	2.61	0.41
1:C:856:TYR:CD1	1:C:856:TYR:N	2.89	0.41
1:C:928:PRO:O	1:C:973:ARG:NH1	2.47	0.41
1:D:69:VAL:HA	1:D:70:PRO:HD3	1.68	0.41
1:D:534:ILE:HG21	1:D:534:ILE:HD13	1.64	0.41
1:D:570:TRP:CE3	1:D:570:TRP:HA	2.56	0.41
1:D:737:ILE:O	1:D:738:PRO:C	2.64	0.41
1:E:36:TRP:CD2	1:E:42:ALA:CB	2.98	0.41
1:E:36:TRP:CE3	1:E:42:ALA:CB	3.02	0.41
1:E:271:THR:O	1:E:272:ALA:HB2	2.21	0.41
1:E:400:THR:HG22	1:E:404:ARG:CD	2.51	0.41
1:E:510:GLN:HA	1:E:511:PRO:HD2	1.66	0.41
1:E:542:MET:HA	1:E:604:ASN:HA	2.03	0.41
1:E:658:LEU:HD11	1:E:692:GLY:HA3	2.03	0.41
1:E:830:LEU:N	1:E:830:LEU:CD1	2.84	0.41
1:E:927:THR:CG2	1:E:929:TYR:CE2	3.03	0.41
1:E:946:TYR:CE2	1:E:982:THR:HG21	2.56	0.41
1:F:45:ASP:H	1:F:310:ARG:NH1	2.19	0.41
1:F:650:GLU:HB3	1:F:670:LEU:HB2	2.03	0.41
1:F:805:ALA:O	1:F:806:TRP:C	2.63	0.41
1:G:296:GLU:O	1:G:297:ASN:C	2.61	0.41
1:G:403:ASP:OD1	1:G:451:PRO:HD2	2.21	0.41
1:G:403:ASP:OD2	1:G:450:HIS:ND1	2.43	0.41
1:G:409:VAL:HG23	1:G:452:SER:HB2	2.03	0.41
1:G:410:VAL:O	1:G:410:VAL:HG12	2.20	0.41
1:H:79:PRO:CD	1:H:80:GLU:N	2.82	0.41
1:H:253:TYR:O	1:H:318:ALA:N	2.52	0.41
1:H:308:LEU:HD23	1:H:308:LEU:HA	1.88	0.41
1:H:347:LYS:HZ3	1:H:347:LYS:HG3	1.77	0.41
1:H:441:THR:O	1:H:445:GLN:HB2	2.21	0.41
1:H:718:GLN:CG	1:H:720:TRP:CZ2	2.98	0.41
1:H:937:LEU:HG	1:H:938:ARG:N	2.35	0.41
1:I:44:THR:O	1:I:45:ASP:C	2.60	0.41
1:I:50:GLN:N	1:I:50:GLN:CD	2.79	0.41
1:I:51:LEU:HD13	1:I:51:LEU:HA	1.73	0.41
1:I:74:LEU:C	1:I:183:ARG:HH12	2.28	0.41
1:I:214:LEU:HD23	1:I:214:LEU:HA	1.89	0.41
1:I:282:ARG:HH11	1:L:419:GLY:C	2.29	0.41
1:I:388:ARG:O	1:I:390:SER:N	2.54	0.41
1:I:668:VAL:HG12	1:I:669:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:955:PHE:CD2	1:I:955:PHE:N	2.88	0.41
1:J:166:ARG:HD2	1:J:166:ARG:HA	1.74	0.41
1:J:223:SER:O	1:J:224:ASP:HB2	2.21	0.41
1:J:377:LEU:HD22	1:J:708:TRP:CB	2.51	0.41
1:J:579:ASP:OD1	1:J:583:ASN:HB2	2.21	0.41
1:J:634:GLN:CD	1:J:634:GLN:H	2.29	0.41
1:K:783:GLN:HG2	1:K:785:THR:H	1.85	0.41
1:K:924:ASP:OD1	1:K:924:ASP:N	2.52	0.41
1:K:985:ASN:HB3	3:K:1275:HOH:O	2.21	0.41
1:K:1008:GLN:O	1:K:1010:SER:N	2.54	0.41
1:L:466:ALA:O	1:L:467:ASN:C	2.61	0.41
1:L:738:PRO:CA	1:L:751:LEU:CD1	2.99	0.41
1:L:802:ASP:C	1:L:804:ASN:N	2.78	0.41
1:M:70:PRO:CG	1:M:78:LEU:HD11	2.23	0.41
1:M:627:PHE:O	1:M:628:GLN:HG2	2.20	0.41
1:N:391:HIS:CE1	1:N:460:ASN:ND2	2.89	0.41
1:N:744:GLU:HA	1:N:760:ARG:HH11	1.85	0.41
1:O:38:ASN:OD1	1:O:39:SER:N	2.54	0.41
1:O:301:TRP:CE3	1:O:301:TRP:C	2.99	0.41
1:O:520:ILE:HG21	1:O:535:LEU:HD21	2.03	0.41
1:O:553:TRP:O	1:O:557:ARG:HD2	2.21	0.41
1:O:915:PHE:CD1	1:O:915:PHE:C	2.99	0.41
1:O:963:SER:O	1:O:964:GLN:C	2.61	0.41
1:O:1020:TRP:C	1:O:1020:TRP:CD1	2.98	0.41
1:P:50:GLN:CD	1:P:50:GLN:N	2.79	0.41
1:P:200:GLN:O	1:P:204:ARG:NE	2.51	0.41
1:P:271:THR:HG22	1:P:272:ALA:H	1.85	0.41
1:P:418:HIS:CE1	1:P:461:GLU:CD	2.99	0.41
1:P:555:ALA:O	1:P:556:PHE:C	2.62	0.41
1:P:930:VAL:HG23	1:P:973:ARG:HH11	1.86	0.41
1:P:951:TRP:HE3	1:P:951:TRP:H	1.67	0.41
1:A:274:PHE:HB3	1:A:286:ALA:O	2.20	0.41
1:A:486:TYR:H	1:A:496:THR:HB	1.86	0.41
1:A:515:VAL:HG21	1:D:281:GLU:HG3	2.03	0.41
1:A:1018:LEU:CD2	1:A:1019:VAL:N	2.81	0.41
1:B:164:ASP:OD2	1:B:167:LEU:HD12	2.21	0.41
1:B:775:GLN:HE21	1:B:775:GLN:N	2.18	0.41
1:B:896:ASN:HA	1:B:918:TRP:O	2.20	0.41
1:B:1005:ALA:C	1:B:1007:PHE:N	2.79	0.41
1:C:84:VAL:CG1	1:C:85:VAL:N	2.84	0.41
1:C:189:LEU:N	1:C:189:LEU:CD2	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:257:THR:HG22	1:C:258:VAL:N	2.34	0.41
1:C:317:THR:OG1	1:C:319:ASP:OD1	2.33	0.41
1:C:407:LEU:HA	1:C:407:LEU:HD23	1.82	0.41
1:D:37:ARG:NH2	1:D:216:HIS:O	2.54	0.41
1:D:166:ARG:CG	1:D:392:TYR:HB2	2.49	0.41
1:D:446:ARG:O	1:D:446:ARG:HG2	2.20	0.41
1:D:552:TYR:C	1:D:554:GLN:N	2.78	0.41
1:E:154:CYS:O	1:E:157:ARG:N	2.29	0.41
1:E:158:TRP:CZ2	1:E:160:GLY:CA	2.99	0.41
1:E:362:LEU:CD2	1:E:576:ILE:HD12	2.51	0.41
1:E:650:GLU:HB3	1:E:670:LEU:HB2	2.03	0.41
1:E:921:PRO:O	1:E:922:LEU:C	2.64	0.41
1:E:931:PHE:CD1	1:E:931:PHE:C	2.98	0.41
1:E:970:THR:HG21	1:E:975:LEU:O	2.21	0.41
1:F:45:ASP:O	1:F:46:ARG:C	2.62	0.41
1:F:67:GLU:H	1:F:67:GLU:HG2	1.24	0.41
1:F:127:PHE:O	1:F:181:GLU:HA	2.21	0.41
1:F:166:ARG:CG	1:F:392:TYR:HB2	2.50	0.41
1:F:378:LEU:HA	1:F:378:LEU:HD23	1.83	0.41
1:F:867:THR:O	1:F:867:THR:HG22	2.19	0.41
1:G:66:PRO:CB	1:G:187:MET:HE1	2.46	0.41
1:G:225:PHE:C	1:G:226:HIS:CD2	2.97	0.41
1:G:250:LEU:HA	1:G:250:LEU:HD23	1.61	0.41
1:G:750:GLU:OE2	1:G:755:ARG:HD3	2.20	0.41
1:G:894:ARG:NH1	1:G:920:LEU:HA	2.33	0.41
1:G:905:ASN:C	1:G:906:TYR:CD1	2.98	0.41
1:H:391:HIS:CD2	1:H:460:ASN:CG	2.99	0.41
1:H:437:SER:O	1:H:441:THR:OG1	2.32	0.41
1:H:537:GLU:HA	1:H:566:PHE:O	2.21	0.41
1:H:650:GLU:O	1:H:670:LEU:HB2	2.21	0.41
1:H:651:LEU:HD12	1:H:668:VAL:C	2.46	0.41
1:H:658:LEU:CD2	1:H:688:PRO:CG	2.99	0.41
1:I:17:GLU:O	1:I:112:PRO:HG2	2.21	0.41
1:I:154:CYS:O	1:I:155:ASN:C	2.64	0.41
1:I:217:LYS:NZ	1:I:324:GLU:CD	2.79	0.41
1:I:218:PRO:HD2	1:I:324:GLU:OE2	2.21	0.41
1:I:275:GLY:HA2	1:I:286:ALA:CA	2.44	0.41
1:I:357:HIS:HD2	1:I:392:TYR:OH	2.03	0.41
1:I:713:HIS:C	1:I:714:ILE:HD13	2.46	0.41
1:I:948:PRO:HG2	1:I:949:HIS:CE1	2.56	0.41
1:J:140:ARG:HB2	1:J:171:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:217:LYS:CB	1:J:218:PRO:HD2	2.51	0.41
1:J:397:LEU:O	1:J:401:LEU:HG	2.20	0.41
1:J:536:CYS:C	1:J:537:GLU:HG3	2.46	0.41
1:J:696:LEU:HD12	1:J:697:THR:H	1.84	0.41
1:K:214:LEU:HD23	1:K:214:LEU:HA	1.88	0.41
1:K:888:LEU:O	1:K:981:GLY:HA3	2.20	0.41
1:L:59:ARG:NH2	1:L:81:ALA:O	2.38	0.41
1:L:63:PHE:CE2	1:L:70:PRO:HD3	2.55	0.41
1:L:372:MET:HG3	1:L:398:TRP:CE3	2.56	0.41
1:L:392:TYR:CD1	1:L:392:TYR:C	2.99	0.41
1:M:36:TRP:CD1	1:M:41:GLU:CB	3.03	0.41
1:M:69:VAL:CG1	1:M:70:PRO:N	2.82	0.41
1:M:252:ASP:CG	1:M:253:TYR:N	2.78	0.41
1:M:423:MET:SD	1:M:461:GLU:O	2.79	0.41
1:M:905:ASN:C	1:M:906:TYR:CD1	2.99	0.41
1:N:163:GLN:O	1:N:164:ASP:HB3	2.19	0.41
1:N:347:LYS:HB2	1:N:643:LEU:HD13	2.03	0.41
1:N:466:ALA:O	1:N:467:ASN:C	2.56	0.41
1:N:693:GLN:HG2	1:N:721:ARG:HD2	2.02	0.41
1:N:738:PRO:HG2	1:N:834:VAL:HG23	2.02	0.41
1:N:921:PRO:O	1:N:922:LEU:C	2.63	0.41
1:N:931:PHE:CD1	1:N:931:PHE:C	2.99	0.41
1:O:60:PHE:CE2	1:O:62:TRP:HB2	2.56	0.41
1:O:84:VAL:HG13	1:O:93:HIS:CE1	2.55	0.41
1:O:102:ASN:ND2	1:O:102:ASN:C	2.78	0.41
1:O:146:VAL:CG1	1:O:188:VAL:HG13	2.51	0.41
1:O:407:LEU:HD23	1:O:407:LEU:HA	1.93	0.41
1:O:856:TYR:HB3	1:O:864:MET:HE2	2.03	0.41
1:O:868:VAL:HG21	1:O:1016:TYR:CZ	2.55	0.41
1:P:261:TRP:CE3	1:P:266:GLN:CA	3.02	0.41
1:P:442:ARG:HD3	3:P:1249:HOH:O	2.21	0.41
1:P:473:ARG:C	1:P:473:ARG:HD3	2.44	0.41
1:A:91:GLN:H	1:A:91:GLN:CD	2.29	0.41
1:A:249:GLU:HG2	1:A:251:ARG:NH2	2.36	0.41
1:A:322:LEU:HD23	1:A:322:LEU:C	2.46	0.41
1:A:425:ARG:NH2	1:D:287:ASP:CG	2.79	0.41
1:A:433:LEU:HD13	1:A:467:ASN:CB	2.44	0.41
1:B:111:PRO:HA	1:B:112:PRO:HA	1.67	0.41
1:B:474:TRP:CZ2	1:B:478:VAL:HG21	2.56	0.41
1:B:519:SER:O	1:B:520:ILE:C	2.62	0.41
1:B:559:TYR:N	1:B:559:TYR:HD1	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:749:ILE:N	1:B:749:ILE:CD1	2.83	0.41
1:B:920:LEU:HB3	1:B:921:PRO:CD	2.48	0.41
1:C:40:GLU:HG3	1:C:43:ARG:HH12	1.82	0.41
1:C:423:MET:SD	1:C:461:GLU:O	2.79	0.41
1:C:708:TRP:CZ3	1:C:709:SER:HB3	2.56	0.41
1:C:876:THR:O	1:C:877:PRO:C	2.63	0.41
1:C:916:ASP:CG	1:C:917:ARG:N	2.79	0.41
1:D:34:ALA:HB3	1:D:36:TRP:CZ3	2.56	0.41
1:D:92:MET:C	1:D:93:HIS:HD2	2.29	0.41
1:D:131:GLU:O	1:D:134:LEU:N	2.50	0.41
1:D:255:ARG:HD3	1:D:255:ARG:HH11	1.70	0.41
1:D:274:PHE:HD2	1:D:288:ARG:N	2.19	0.41
1:D:540:HIS:CD2	1:D:568:TRP:HD1	2.39	0.41
1:D:595:THR:HA	1:D:596:PRO:HA	1.80	0.41
1:D:853:ARG:NH1	1:D:871:GLU:OE1	2.46	0.41
1:D:902:PRO:HD3	1:D:918:TRP:CZ2	2.56	0.41
1:E:66:PRO:HD2	1:E:67:GLU:H	1.86	0.41
1:E:67:GLU:HG2	1:E:67:GLU:H	1.07	0.41
1:E:88:SER:HA	1:E:366:VAL:CG2	2.47	0.41
1:E:166:ARG:CG	1:E:392:TYR:HB2	2.29	0.41
1:E:190:ARG:HD3	1:E:191:TRP:CZ2	2.54	0.41
1:E:226:HIS:CD2	1:E:226:HIS:N	2.85	0.41
1:E:260:LEU:CD1	1:E:311:ALA:HB2	2.51	0.41
1:E:261:TRP:CZ3	1:E:266:GLN:CB	2.99	0.41
1:E:271:THR:HG22	1:E:272:ALA:N	2.35	0.41
1:E:280:ASP:OD2	1:H:423:MET:HB3	2.20	0.41
1:E:319:ASP:OD1	1:E:320:GLY:N	2.54	0.41
1:E:369:GLU:HG3	1:E:397:LEU:CD2	2.51	0.41
1:E:431:ARG:H	1:E:431:ARG:HG3	1.33	0.41
1:E:476:LYS:HD2	1:E:476:LYS:HA	1.90	0.41
1:E:851:ILE:HD11	1:F:728:VAL:CG1	2.51	0.41
1:E:995:GLY:C	1:E:997:ASP:N	2.78	0.41
1:E:1005:ALA:C	1:E:1007:PHE:N	2.79	0.41
1:F:129:VAL:CG2	1:F:182:ASN:ND2	2.82	0.41
1:F:172:ASP:OD1	1:F:174:SER:HB2	2.21	0.41
1:F:524:LEU:HD13	1:F:561:ARG:HB2	2.02	0.41
1:F:583:ASN:HA	1:F:584:PRO:HD2	1.76	0.41
1:F:658:LEU:HD11	1:F:692:GLY:HA3	2.03	0.41
1:F:742:THR:HG22	1:F:743:SER:N	2.32	0.41
1:F:977:HIS:CD2	1:F:977:HIS:C	2.98	0.41
1:F:1004:SER:O	1:F:1005:ALA:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:231:PHE:CD1	1:G:231:PHE:N	2.89	0.41
1:G:249:GLU:CD	1:G:251:ARG:NH2	2.79	0.41
1:G:301:TRP:HE3	1:G:333:ARG:HG2	1.85	0.41
1:G:570:TRP:HD1	1:G:571:VAL:HG22	1.83	0.41
1:G:615:PRO:HB2	1:G:909:ARG:NH2	2.36	0.41
1:G:777:LEU:HD12	1:G:888:LEU:O	2.21	0.41
1:H:29:ALA:C	1:H:30:HIS:CD2	2.99	0.41
1:H:202:MET:HE2	1:H:357:HIS:HD2	1.85	0.41
1:H:274:PHE:HD2	1:H:288:ARG:N	2.19	0.41
1:H:315:LEU:O	1:H:323:ILE:HD13	2.20	0.41
1:H:354:VAL:O	1:H:354:VAL:HG13	2.21	0.41
1:H:465:GLY:O	1:H:466:ALA:C	2.64	0.41
1:H:503:TYR:N	1:H:537:GLU:O	2.47	0.41
1:H:843:GLN:HB3	1:H:847:LYS:O	2.21	0.41
1:H:894:ARG:NH1	1:H:920:LEU:CA	2.83	0.41
1:H:894:ARG:NH1	1:H:920:LEU:C	2.79	0.41
1:H:994:GLY:HA3	1:H:1003:VAL:HG23	2.03	0.41
1:I:166:ARG:HD2	1:I:166:ARG:HA	1.64	0.41
1:I:359:HIS:CG	1:I:360:HIS:N	2.88	0.41
1:I:601:PHE:C	1:I:603:MET:H	2.28	0.41
1:I:604:ASN:ND2	3:I:1256:HOH:O	2.41	0.41
1:I:661:LYS:HA	1:I:662:PRO:HD2	1.72	0.41
1:I:763:GLY:HA3	1:I:822:LEU:HD22	2.03	0.41
1:I:778:THR:HG23	1:I:779:PRO:HD2	2.02	0.41
1:I:942:ARG:NH2	1:I:954:ASP:HB2	2.33	0.41
1:I:942:ARG:HH22	1:J:1013:ARG:HD3	1.85	0.41
1:J:11:LEU:N	1:J:11:LEU:HD23	2.36	0.41
1:J:86:VAL:HA	1:J:87:PRO:C	2.46	0.41
1:J:240:LEU:HG	1:J:241:GLU:N	2.36	0.41
1:J:262:GLN:HE22	1:J:299:LYS:HD3	1.85	0.41
1:J:316:HIS:ND1	1:J:316:HIS:N	2.68	0.41
1:J:355:ASN:H	1:J:355:ASN:ND2	1.93	0.41
1:J:581:ASN:HB3	1:J:583:ASN:ND2	2.36	0.41
1:J:663:LEU:HD23	1:J:663:LEU:N	2.28	0.41
1:J:813:ALA:HB1	1:J:815:HIS:HD2	1.86	0.41
1:K:60:PHE:CD1	1:K:60:PHE:C	2.99	0.41
1:K:409:VAL:HG12	1:K:410:VAL:N	2.36	0.41
1:K:608:PHE:HD2	1:K:612:THR:O	2.04	0.41
1:K:625:GLN:OE1	1:K:716:ALA:HB1	2.21	0.41
1:K:645:ARG:HH12	1:K:646:HIS:C	2.22	0.41
1:K:737:ILE:O	1:K:738:PRO:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:949:HIS:CD2	1:K:1020:TRP:CZ2	3.09	0.41
1:L:36:TRP:CD2	1:L:42:ALA:CB	3.03	0.41
1:L:100:TYR:CB	1:L:203:TRP:CZ3	3.04	0.41
1:L:107:ILE:HG21	1:L:107:ILE:HD12	1.86	0.41
1:L:376:ILE:HD12	1:L:401:LEU:HB3	2.02	0.41
1:L:400:THR:CG2	1:L:404:ARG:HD2	2.43	0.41
1:L:502:MET:HE2	1:L:537:GLU:OE1	2.21	0.41
1:L:653:HIS:HD2	1:L:667:GLU:CG	2.31	0.41
1:L:740:LEU:HD12	1:L:741:THR:N	2.36	0.41
1:L:797:GLU:O	1:L:800:ARG:N	2.54	0.41
1:L:813:ALA:HB3	1:L:815:HIS:CD2	2.56	0.41
1:L:878:HIS:N	1:L:878:HIS:ND1	2.67	0.41
1:L:899:GLY:O	1:L:918:TRP:NE1	2.53	0.41
1:M:12:GLN:HG2	1:P:4:THR:CG2	2.51	0.41
1:M:24:LEU:HD23	1:M:24:LEU:HA	1.79	0.41
1:M:66:PRO:HB3	1:M:187:MET:HE3	2.00	0.41
1:M:202:MET:HB3	1:M:573:GLN:HE22	1.85	0.41
1:M:318:ALA:C	1:M:320:GLY:N	2.78	0.41
1:M:558:GLN:O	1:M:558:GLN:HG2	2.19	0.41
1:M:580:GLU:C	1:M:582:GLY:H	2.27	0.41
1:N:39:SER:O	1:N:40:GLU:C	2.63	0.41
1:N:46:ARG:CB	1:N:47:PRO:CD	2.98	0.41
1:N:147:ASN:HB2	1:N:209:PHE:CE1	2.55	0.41
1:N:177:LEU:N	1:N:177:LEU:HD23	2.34	0.41
1:N:399:TYR:O	1:N:400:THR:C	2.61	0.41
1:N:635:THR:HG23	1:N:681:GLU:HA	2.02	0.41
1:N:658:LEU:O	1:N:661:LYS:HD3	2.20	0.41
1:N:777:LEU:HD21	1:N:889:ALA:CB	2.51	0.41
1:N:822:LEU:HD12	1:N:822:LEU:C	2.39	0.41
1:O:246:MET:HG2	1:O:274:PHE:CE2	2.56	0.41
1:O:492:ASP:OD1	1:O:492:ASP:N	2.52	0.41
1:O:989:PHE:HE2	1:O:1014:TYR:HB3	1.86	0.41
1:O:995:GLY:C	1:O:997:ASP:N	2.77	0.41
1:P:14:ARG:CZ	1:P:16:TRP:HZ2	2.32	0.41
1:P:23:GLN:CB	1:P:26:ARG:CZ	2.98	0.41
1:P:113:PHE:O	1:P:196:TYR:OH	2.29	0.41
1:P:150:PHE:O	1:P:162:GLY:N	2.54	0.41
1:P:288:ARG:C	1:P:289:VAL:HG12	2.46	0.41
1:P:360:HIS:CB	1:P:363:HIS:HB2	2.51	0.41
1:P:365:GLN:O	1:P:367:MET:HG2	2.21	0.41
1:P:436:MET:O	1:P:439:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:505:ARG:O	1:P:519:SER:HA	2.21	0.41
1:P:513:PRO:C	1:P:515:VAL:H	2.28	0.41
1:P:521:LYS:H	1:P:521:LYS:HG3	1.73	0.41
1:P:544:ASN:CB	1:P:789:LEU:CD2	2.99	0.41
1:P:651:LEU:HD12	1:P:668:VAL:O	2.20	0.41
1:P:734:SER:C	1:P:735:HIS:ND1	2.79	0.41
1:P:894:ARG:NH1	1:P:919:ASP:O	2.54	0.41
1:P:902:PRO:CG	1:P:918:TRP:CZ3	3.02	0.41
1:P:957:PHE:CD1	1:P:957:PHE:C	2.99	0.41
1:B:372:MET:HE1	1:B:395:HIS:CB	2.50	0.41
1:B:410:VAL:HG22	1:B:455:ILE:HB	2.01	0.41
1:B:538:TYR:O	1:B:567:VAL:HA	2.21	0.41
1:B:689:GLU:O	1:B:690:SER:C	2.62	0.41
1:B:870:VAL:CG1	1:B:871:GLU:N	2.83	0.41
1:C:66:PRO:HB3	1:C:187:MET:CE	2.50	0.41
1:C:579:ASP:OD1	1:C:580:GLU:N	2.46	0.41
1:C:705:ALA:HA	3:C:1255:HOH:O	2.21	0.41
1:D:23:GLN:CD	1:D:24:LEU:N	2.79	0.41
1:D:679:LEU:N	1:D:679:LEU:HD23	2.34	0.41
1:D:878:HIS:CD2	1:D:1010:SER:HB3	2.56	0.41
1:E:291:LEU:N	1:E:291:LEU:CD1	2.79	0.41
1:E:356:ARG:CG	1:E:356:ARG:NH1	2.78	0.41
1:E:606:LEU:O	1:E:607:VAL:HG13	2.20	0.41
1:F:131:GLU:O	1:F:134:LEU:N	2.42	0.41
1:F:164:ASP:HB3	3:F:1245:HOH:O	2.20	0.41
1:F:694:LEU:HB3	1:F:723:ALA:H	1.85	0.41
1:F:768:MET:HG2	1:F:775:GLN:HB2	2.03	0.41
1:F:806:TRP:CH2	1:F:809:ARG:NH2	2.89	0.41
1:F:1013:ARG:HH11	1:F:1013:ARG:HG3	1.85	0.41
1:G:154:CYS:O	1:G:155:ASN:C	2.64	0.41
1:G:349:LEU:HD23	1:G:349:LEU:HA	1.80	0.41
1:G:630:ARG:NH1	1:G:637:GLU:CD	2.79	0.41
1:G:673:ALA:O	1:G:674:PRO:C	2.63	0.41
1:G:1005:ALA:O	1:G:1006:GLU:C	2.64	0.41
1:H:205:MET:HE3	1:H:365:GLN:CD	2.44	0.41
1:H:217:LYS:HA	1:H:218:PRO:HD3	1.83	0.41
1:H:369:GLU:O	1:H:372:MET:HB2	2.21	0.41
1:H:544:ASN:HB2	1:H:929:TYR:CE2	2.56	0.41
1:H:907:PRO:HA	1:H:910:LEU:HD23	2.03	0.41
1:H:921:PRO:O	1:H:922:LEU:C	2.62	0.41
1:H:948:PRO:HG2	1:H:949:HIS:ND1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:106:PRO:HG2	1:I:191:TRP:CZ3	2.55	0.41
1:I:210:ARG:NH1	1:I:395:HIS:CA	2.84	0.41
1:I:436:MET:O	1:I:437:SER:C	2.64	0.41
1:I:455:ILE:HG21	1:I:455:ILE:HD13	1.80	0.41
1:I:473:ARG:HA	1:I:473:ARG:HD3	1.81	0.41
1:I:783:GLN:NE2	1:I:985:ASN:OD1	2.39	0.41
1:J:377:LEU:CD2	1:J:708:TRP:CB	2.99	0.41
1:J:613:PRO:HB3	1:J:617:LEU:HD23	2.03	0.41
1:J:931:PHE:CD1	1:J:931:PHE:C	2.99	0.41
1:K:3:ILE:C	1:K:5:ASP:H	2.28	0.41
1:K:70:PRO:O	1:K:71:GLU:C	2.64	0.41
1:K:167:LEU:CB	1:K:168:PRO:CD	2.98	0.41
1:K:500:CYS:HA	1:K:534:ILE:O	2.21	0.41
1:K:521:LYS:HD3	1:K:559:TYR:CZ	2.55	0.41
1:K:822:LEU:HD12	1:K:823:LEU:N	2.36	0.41
1:K:900:LEU:HD12	1:K:939:CYS:C	2.46	0.41
1:K:966:GLN:O	1:K:967:LEU:C	2.64	0.41
1:L:62:TRP:C	1:L:63:PHE:CD1	2.99	0.41
1:L:195:SER:C	1:L:197:LEU:N	2.79	0.41
1:L:234:ASP:CG	1:L:236:SER:HG	2.25	0.41
1:L:336:ARG:NH2	1:L:338:GLU:CD	2.79	0.41
1:L:718:GLN:HG2	1:L:720:TRP:CH2	2.55	0.41
1:L:984:LEU:CD2	1:L:986:ILE:CD1	2.99	0.41
1:M:43:ARG:O	1:M:310:ARG:HD3	2.21	0.41
1:M:352:ARG:HD3	1:M:626:PHE:CZ	2.56	0.41
1:M:399:TYR:OH	1:M:411:ASP:OD1	2.38	0.41
1:M:572:ASP:CB	1:M:603:MET:HB3	2.41	0.41
1:M:589:GLY:C	1:M:597:ASN:ND2	2.79	0.41
1:M:826:THR:O	1:M:836:ILE:HG23	2.20	0.41
1:N:62:TRP:C	1:N:63:PHE:CD1	2.99	0.41
1:N:279:ILE:HG12	1:N:280:ASP:N	2.35	0.41
1:N:572:ASP:CG	1:N:603:MET:HB3	2.46	0.41
1:N:654:TRP:CE3	1:N:654:TRP:C	2.99	0.41
1:O:14:ARG:HG2	1:O:16:TRP:CZ2	2.56	0.41
1:O:429:ASP:HA	1:O:430:PRO:HD3	1.86	0.41
1:O:515:VAL:N	1:O:516:PRO:CD	2.84	0.41
1:O:568:TRP:CD1	1:O:568:TRP:C	2.98	0.41
1:O:835:LEU:CD1	1:O:857:ARG:HB2	2.51	0.41
1:P:90:TRP:C	1:P:90:TRP:CD1	2.99	0.41
1:P:210:ARG:NH1	1:P:395:HIS:CA	2.83	0.41
1:P:378:LEU:HD23	1:P:378:LEU:HA	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:423:MET:HE1	1:P:461:GLU:CA	2.51	0.41
1:P:544:ASN:HD22	1:P:789:LEU:HD21	1.86	0.41
1:P:559:TYR:O	1:P:560:PRO:C	2.64	0.41
1:P:652:LEU:HD13	1:P:700:VAL:HG23	2.03	0.41
1:P:830:LEU:C	1:P:832:ASP:N	2.78	0.41
1:P:890:GLN:NE2	1:P:948:PRO:HD3	2.36	0.41
1:P:950:GLN:OE1	1:P:952:ARG:NE	2.53	0.41
1:P:1018:LEU:HD23	1:P:1018:LEU:HA	1.41	0.41
1:A:929:TYR:O	1:A:930:VAL:C	2.64	0.40
1:B:229:THR:C	1:B:230:ARG:HG2	2.44	0.40
1:C:85:VAL:O	1:C:88:SER:HB3	2.22	0.40
1:C:308:LEU:HD23	1:C:308:LEU:HA	1.81	0.40
1:D:253:TYR:HA	1:D:255:ARG:HH12	1.85	0.40
1:D:590:GLY:C	1:D:592:PHE:N	2.79	0.40
1:E:62:TRP:CH2	1:E:64:PRO:HA	2.56	0.40
1:E:105:TYR:HD2	1:E:109:VAL:HG21	1.85	0.40
1:E:115:PRO:HD2	1:E:191:TRP:CD1	2.56	0.40
1:E:227:VAL:CG1	1:E:228:ALA:N	2.82	0.40
1:E:360:HIS:ND1	1:E:363:HIS:N	2.54	0.40
1:E:395:HIS:ND1	1:E:395:HIS:C	2.79	0.40
1:E:743:SER:OG	1:E:744:GLU:N	2.55	0.40
1:E:1003:VAL:O	1:E:1008:GLN:NE2	2.53	0.40
1:F:695:TRP:CE2	1:F:721:ARG:HG3	2.56	0.40
1:G:69:VAL:CG1	1:G:122:CYS:SG	3.09	0.40
1:G:73:TRP:O	1:G:183:ARG:NH2	2.53	0.40
1:G:79:PRO:HG2	1:G:80:GLU:H	1.85	0.40
1:G:79:PRO:CD	1:G:80:GLU:H	2.33	0.40
1:G:668:VAL:CG1	1:G:669:PRO:CD	2.99	0.40
1:G:956:GLN:CD	1:G:956:GLN:N	2.79	0.40
1:H:23:GLN:CB	1:H:26:ARG:NE	2.84	0.40
1:H:153:TRP:HE3	1:H:185:ALA:O	2.02	0.40
1:H:813:ALA:HB3	1:H:815:HIS:CD2	2.55	0.40
1:H:856:TYR:CD1	1:H:856:TYR:N	2.88	0.40
1:H:894:ARG:NH1	1:H:919:ASP:OD2	2.54	0.40
1:I:125:LEU:O	1:I:184:LEU:N	2.44	0.40
1:I:376:ILE:HG13	1:I:398:TRP:CZ3	2.56	0.40
1:J:200:GLN:HG2	1:J:391:HIS:HB2	2.03	0.40
1:J:634:GLN:CD	1:J:634:GLN:N	2.79	0.40
1:J:651:LEU:HD12	1:J:668:VAL:O	2.21	0.40
1:J:654:TRP:O	1:J:665:SER:HA	2.20	0.40
1:J:674:PRO:C	1:J:676:GLY:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:805:ALA:O	1:J:806:TRP:C	2.63	0.40
1:K:68:ALA:O	1:K:70:PRO:HD3	2.21	0.40
1:K:132:SER:HA	1:K:135:GLN:OE1	2.21	0.40
1:K:627:PHE:CZ	1:K:650:GLU:HG2	2.56	0.40
1:K:646:HIS:NE2	1:K:671:ASP:OD1	2.48	0.40
1:K:658:LEU:C	1:K:660:GLY:N	2.79	0.40
1:K:782:ASP:HB2	1:K:842:TRP:CH2	2.55	0.40
1:K:851:ILE:O	1:K:851:ILE:HG22	2.14	0.40
1:K:1018:LEU:HD23	1:K:1018:LEU:HA	1.69	0.40
1:L:62:TRP:C	1:L:62:TRP:CE3	2.99	0.40
1:L:177:LEU:HD22	1:L:177:LEU:HA	1.89	0.40
1:L:929:TYR:O	1:L:930:VAL:C	2.64	0.40
1:L:961:ARG:NE	1:L:981:GLY:O	2.54	0.40
1:M:62:TRP:C	1:M:63:PHE:CD1	2.99	0.40
1:M:108:THR:CG2	1:M:109:VAL:H	2.34	0.40
1:M:227:VAL:HG12	1:M:228:ALA:N	2.36	0.40
1:M:356:ARG:HG2	1:M:356:ARG:O	2.21	0.40
1:N:210:ARG:HH11	1:N:395:HIS:CA	2.33	0.40
1:N:220:THR:O	1:N:220:THR:HG22	2.21	0.40
1:N:654:TRP:CZ2	1:N:665:SER:C	2.99	0.40
1:N:836:ILE:CG2	1:N:837:THR:N	2.84	0.40
1:N:897:TRP:CE2	1:N:918:TRP:HB2	2.55	0.40
1:N:924:ASP:C	1:N:925:MET:HG2	2.46	0.40
1:N:927:THR:HG21	1:N:929:TYR:CZ	2.56	0.40
1:O:78:LEU:CB	1:O:79:PRO:HD2	2.51	0.40
1:O:645:ARG:O	1:O:674:PRO:HG3	2.21	0.40
1:O:768:MET:O	1:O:775:GLN:N	2.52	0.40
1:O:878:HIS:NE2	1:O:1010:SER:HB2	2.36	0.40
1:P:91:GLN:HG3	1:P:96:ASP:OD1	2.21	0.40
1:P:354:VAL:HA	1:P:567:VAL:H	1.86	0.40
1:P:538:TYR:O	1:P:567:VAL:HA	2.21	0.40
1:A:141:ILE:HG13	1:A:213:SER:O	2.21	0.40
1:A:210:ARG:NH1	1:A:394:ASN:C	2.79	0.40
1:A:315:LEU:O	1:A:323:ILE:N	2.47	0.40
1:A:786:ARG:HH11	1:A:990:HIS:HE1	1.69	0.40
1:B:289:VAL:HG22	1:B:290:THR:N	2.35	0.40
1:B:935:ASN:N	1:B:935:ASN:ND2	2.68	0.40
1:C:35:SER:HB2	1:C:217:LYS:HE2	2.02	0.40
1:C:53:SER:OG	1:C:55:ASN:HB2	2.21	0.40
1:C:243:GLU:O	1:C:243:GLU:HG2	2.20	0.40
1:D:225:PHE:C	1:D:226:HIS:HD2	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:232:ASN:O	1:D:233:ASP:C	2.59	0.40
1:D:438:GLU:O	1:D:442:ARG:HG3	2.21	0.40
1:D:802:ASP:HA	1:D:803:PRO:HD2	1.81	0.40
1:D:1020:TRP:HD1	1:D:1021:CYS:H	1.69	0.40
1:E:279:ILE:CD1	1:H:424:ASN:HB2	2.44	0.40
1:E:897:TRP:CZ2	1:E:918:TRP:HB2	2.56	0.40
1:E:967:LEU:O	1:E:969:GLU:N	2.54	0.40
1:F:553:TRP:CD1	1:F:553:TRP:N	2.90	0.40
1:F:843:GLN:CG	1:F:848:THR:HA	2.51	0.40
1:F:937:LEU:C	1:F:938:ARG:HG2	2.46	0.40
1:G:375:ASP:O	1:G:379:MET:HG3	2.21	0.40
1:H:456:TRP:NE1	1:H:482:ARG:CD	2.81	0.40
1:H:1004:SER:O	1:H:1008:GLN:HG3	2.20	0.40
1:I:409:VAL:HG12	1:I:410:VAL:N	2.37	0.40
1:I:464:HIS:N	3:I:1223:HOH:O	2.28	0.40
1:J:91:GLN:C	1:J:93:HIS:N	2.79	0.40
1:J:234:ASP:O	1:J:235:PHE:HB2	2.21	0.40
1:J:369:GLU:O	1:J:372:MET:HB2	2.20	0.40
1:J:454:ILE:HD13	1:J:454:ILE:HG21	1.81	0.40
1:J:820:ALA:HB2	1:J:842:TRP:NE1	2.37	0.40
1:J:825:CYS:SG	1:J:825:CYS:O	2.79	0.40
1:K:195:SER:C	1:K:197:LEU:N	2.78	0.40
1:K:395:HIS:HA	1:K:396:PRO:HD3	1.97	0.40
1:K:656:VAL:HG21	1:K:685:LEU:CD2	2.51	0.40
1:K:850:PHE:O	1:K:851:ILE:HG13	2.21	0.40
1:L:23:GLN:NE2	1:L:23:GLN:C	2.79	0.40
1:L:30:HIS:CG	1:L:33:PHE:CE2	3.10	0.40
1:L:256:VAL:N	1:L:272:ALA:O	2.54	0.40
1:L:394:ASN:O	1:L:395:HIS:C	2.64	0.40
1:L:505:ARG:O	1:L:519:SER:HA	2.21	0.40
1:L:691:ALA:HA	1:L:725:ASN:CB	2.52	0.40
1:M:35:SER:C	1:M:36:TRP:O	2.63	0.40
1:M:46:ARG:CB	1:M:47:PRO:CD	2.99	0.40
1:M:429:ASP:OD1	1:M:431:ARG:N	2.55	0.40
1:M:523:TRP:HA	1:M:526:LEU:HD11	2.04	0.40
1:M:540:HIS:ND1	1:M:998:SER:OG	2.47	0.40
1:M:745:MET:O	1:M:746:ASP:HB3	2.21	0.40
1:M:881:ARG:HB3	1:M:990:HIS:CD2	2.55	0.40
1:M:1005:ALA:C	1:M:1007:PHE:H	2.29	0.40
1:N:13:ARG:HD3	1:O:13:ARG:NH1	2.36	0.40
1:N:173:LEU:HD23	1:N:173:LEU:HA	1.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:232:ASN:C	1:N:234:ASP:N	2.78	0.40
1:N:273:PRO:C	1:N:274:PHE:O	2.63	0.40
1:N:408:TYR:HB3	1:N:454:ILE:HD13	2.02	0.40
1:N:409:VAL:HG12	1:N:410:VAL:N	2.36	0.40
1:N:781:ARG:HH11	1:N:781:ARG:HD2	1.70	0.40
1:N:971:SER:C	1:N:972:HIS:ND1	2.79	0.40
1:O:102:ASN:ND2	1:O:201:ASP:CG	2.79	0.40
1:O:421:VAL:HA	1:O:422:PRO:HA	1.87	0.40
1:O:650:GLU:HA	1:O:701:VAL:O	2.20	0.40
1:O:962:TYR:CE2	1:O:976:LEU:HB3	2.56	0.40
1:O:994:GLY:HA3	1:O:1003:VAL:HG22	2.03	0.40
1:P:471:LEU:O	1:P:475:ILE:HG12	2.22	0.40
1:P:554:GLN:O	1:P:555:ALA:C	2.62	0.40
1:A:225:PHE:C	1:A:226:HIS:CD2	2.99	0.40
1:A:358:GLU:HB3	1:A:367:MET:CG	2.52	0.40
1:A:486:TYR:H	1:A:496:THR:CB	2.34	0.40
1:A:517:LYS:NZ	3:A:1238:HOH:O	2.39	0.40
1:A:806:TRP:CH2	1:A:809:ARG:NH2	2.89	0.40
1:A:972:HIS:O	1:A:973:ARG:C	2.62	0.40
1:B:147:ASN:HA	1:B:148:SER:HA	1.53	0.40
1:B:619:GLU:HA	1:B:912:ALA:HB2	2.04	0.40
1:B:658:LEU:HD21	1:B:690:SER:HB2	2.03	0.40
1:C:977:HIS:CD2	1:C:977:HIS:C	2.99	0.40
1:D:988:GLY:C	1:D:989:PHE:CD2	2.99	0.40
1:E:9:VAL:O	1:E:12:GLN:HB3	2.22	0.40
1:E:29:ALA:C	1:E:30:HIS:CD2	2.99	0.40
1:E:66:PRO:C	1:E:68:ALA:N	2.78	0.40
1:E:249:GLU:CD	1:E:251:ARG:NH2	2.79	0.40
1:E:382:ASN:ND2	1:E:617:LEU:HD21	2.36	0.40
1:E:580:GLU:C	1:E:582:GLY:N	2.80	0.40
1:E:608:PHE:C	1:E:610:ASP:N	2.80	0.40
1:E:697:THR:OG1	1:E:719:GLN:NE2	2.54	0.40
1:E:947:GLY:HA3	1:E:948:PRO:HD2	1.87	0.40
1:F:36:TRP:CD1	1:F:41:GLU:CB	3.01	0.40
1:F:608:PHE:C	1:F:610:ASP:N	2.80	0.40
1:F:873:ALA:C	1:F:875:ASP:N	2.78	0.40
1:G:289:VAL:HG22	1:G:290:THR:N	2.36	0.40
1:G:579:ASP:C	1:G:581:ASN:N	2.79	0.40
1:G:606:LEU:HD23	1:G:606:LEU:HA	1.89	0.40
1:G:909:ARG:O	1:G:909:ARG:HG2	2.20	0.40
1:H:38:ASN:OD1	1:H:40:GLU:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:59:ARG:NH2	1:H:81:ALA:HB3	2.37	0.40
1:H:250:LEU:HD23	1:H:250:LEU:HA	1.88	0.40
1:H:350:LEU:HD12	1:H:563:GLN:O	2.22	0.40
1:H:608:PHE:CE1	1:H:614:HIS:CE1	3.09	0.40
1:H:634:GLN:N	1:H:634:GLN:CD	2.80	0.40
1:I:245:GLN:HG2	1:I:288:ARG:HG2	2.04	0.40
1:I:395:HIS:CE1	1:I:397:LEU:CB	3.04	0.40
1:I:631:LEU:HD22	1:I:696:LEU:HD23	2.04	0.40
1:I:802:ASP:C	1:I:804:ASN:N	2.79	0.40
1:I:856:TYR:CD2	1:I:864:MET:CE	2.99	0.40
1:I:1003:VAL:O	1:I:1004:SER:C	2.62	0.40
1:J:111:PRO:CB	1:J:112:PRO:HA	2.50	0.40
1:J:202:MET:HE2	1:J:202:MET:HB2	1.91	0.40
1:J:801:ILE:HD12	1:J:801:ILE:N	2.36	0.40
1:J:877:PRO:O	1:J:878:HIS:C	2.63	0.40
1:K:83:THR:CG2	1:K:84:VAL:N	2.83	0.40
1:K:555:ALA:O	1:K:558:GLN:N	2.51	0.40
1:K:927:THR:HA	1:K:928:PRO:HD2	1.83	0.40
1:K:987:ASP:OD2	1:K:990:HIS:HD2	2.05	0.40
1:L:31:PRO:CB	1:L:32:PRO:CD	2.99	0.40
1:L:548:GLY:C	1:L:550:ALA:N	2.78	0.40
1:L:701:VAL:CG2	1:L:714:ILE:CD1	2.99	0.40
1:L:764:PHE:O	1:L:765:LEU:C	2.63	0.40
1:L:906:TYR:N	1:L:906:TYR:CD1	2.89	0.40
1:L:959:ILE:CB	1:L:984:LEU:HD12	2.51	0.40
1:L:966:GLN:OE1	1:L:977:HIS:N	2.45	0.40
1:M:136:GLU:O	1:M:137:GLY:O	2.39	0.40
1:M:232:ASN:HD21	1:M:236:SER:CA	2.34	0.40
1:M:301:TRP:CD1	1:M:308:LEU:HD21	2.56	0.40
1:M:331:GLY:HA3	1:M:451:PRO:HG3	2.03	0.40
1:M:413:ALA:CA	1:M:443:MET:CE	3.00	0.40
1:M:509:ASP:C	1:M:511:PRO:HD3	2.45	0.40
1:M:557:ARG:HG3	1:M:557:ARG:HH11	1.87	0.40
1:M:723:ALA:HB1	1:M:724:GLU:H	1.66	0.40
1:M:851:ILE:O	1:M:851:ILE:HG22	2.20	0.40
1:M:959:ILE:HG23	1:M:959:ILE:O	2.20	0.40
1:N:18:ASN:C	1:N:20:GLY:H	2.28	0.40
1:N:141:ILE:O	1:N:170:GLU:HA	2.22	0.40
1:N:240:LEU:HD22	1:N:260:LEU:HD13	2.03	0.40
1:N:279:ILE:HG21	1:N:279:ILE:HD12	1.71	0.40
1:N:279:ILE:CD1	1:O:422:PRO:CG	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:418:HIS:CE1	1:N:461:GLU:CD	3.00	0.40
1:N:743:SER:O	1:N:760:ARG:NH1	2.51	0.40
1:N:859:ASP:O	1:N:860:GLY:C	2.64	0.40
1:N:920:LEU:CB	1:N:921:PRO:CD	2.99	0.40
1:O:27:LEU:HD12	1:O:140:ARG:HH11	1.86	0.40
1:O:111:PRO:HA	1:O:112:PRO:HA	1.66	0.40
1:O:540:HIS:CE1	1:O:999:TRP:HZ3	2.39	0.40
1:P:150:PHE:O	1:P:161:TYR:HA	2.22	0.40
1:P:394:ASN:O	1:P:399:TYR:HE1	2.04	0.40
1:P:423:MET:SD	1:P:461:GLU:O	2.79	0.40
1:P:608:PHE:O	1:P:610:ASP:N	2.55	0.40
1:P:781:ARG:O	1:P:884:LEU:HA	2.22	0.40
1:A:291:LEU:N	1:A:291:LEU:CD1	2.79	0.40
1:A:514:ALA:C	1:A:516:PRO:HD3	2.46	0.40
1:B:577:LYS:NZ	1:B:591:ASP:O	2.30	0.40
1:B:616:ALA:C	1:B:618:THR:N	2.79	0.40
1:B:634:GLN:N	1:B:634:GLN:CD	2.79	0.40
1:B:868:VAL:CB	1:B:1016:TYR:CE1	3.04	0.40
1:B:898:LEU:HA	1:B:898:LEU:HD12	1.66	0.40
1:B:986:ILE:HG21	1:B:1018:LEU:HD11	2.04	0.40
1:B:1012:GLY:C	1:B:1013:ARG:HG3	2.45	0.40
1:C:95:TYR:CD1	1:C:95:TYR:N	2.90	0.40
1:C:412:GLU:HG3	1:C:457:SER:OG	2.21	0.40
1:C:479:ASP:C	1:C:481:SER:N	2.79	0.40
1:C:555:ALA:O	1:C:556:PHE:C	2.63	0.40
1:C:600:GLN:HG3	1:C:600:GLN:H	1.27	0.40
1:C:603:MET:HE1	1:C:930:VAL:CG1	2.52	0.40
1:E:317:THR:O	1:E:318:ALA:C	2.63	0.40
1:E:786:ARG:O	1:E:816:TYR:OH	2.30	0.40
1:E:834:VAL:HG12	1:E:835:LEU:N	2.37	0.40
1:E:894:ARG:HH12	1:E:920:LEU:N	2.19	0.40
1:E:901:GLY:HA3	1:E:902:PRO:HA	1.81	0.40
1:F:43:ARG:HH21	1:F:264:GLU:HG2	1.86	0.40
1:F:225:PHE:C	1:F:226:HIS:CD2	2.99	0.40
1:F:301:TRP:CD1	1:F:308:LEU:CD2	3.04	0.40
1:F:657:ALA:HA	1:F:661:LYS:O	2.22	0.40
1:F:708:TRP:CD1	1:F:708:TRP:H	2.40	0.40
1:F:988:GLY:C	1:F:989:PHE:CG	2.99	0.40
1:G:13:ARG:H	1:G:13:ARG:HG3	1.71	0.40
1:G:73:TRP:HZ2	1:G:123:TYR:O	2.04	0.40
1:G:280:ASP:O	1:G:281:GLU:C	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:352:ARG:HD3	1:G:383:ASN:O	2.20	0.40
1:G:608:PHE:HB2	1:G:612:THR:O	2.21	0.40
1:G:951:TRP:O	1:G:952:ARG:HG3	2.21	0.40
1:H:7:LEU:C	1:H:9:VAL:N	2.78	0.40
1:H:161:TYR:CD2	1:H:162:GLY:N	2.89	0.40
1:H:474:TRP:CH2	1:H:478:VAL:HG21	2.53	0.40
1:H:878:HIS:HA	1:H:879:PRO:HD3	1.69	0.40
1:H:931:PHE:CD1	1:H:931:PHE:C	2.99	0.40
1:I:44:THR:C	1:I:46:ARG:N	2.79	0.40
1:I:141:ILE:HG21	1:I:143:PHE:HE1	1.86	0.40
1:I:651:LEU:HD12	1:I:651:LEU:C	2.44	0.40
1:I:961:ARG:CB	1:I:978:ALA:CB	2.99	0.40
1:J:257:THR:HG23	1:J:270:GLY:O	2.21	0.40
1:J:801:ILE:HG22	1:J:803:PRO:HD3	2.04	0.40
1:K:134:LEU:HD23	1:K:134:LEU:HA	1.77	0.40
1:K:155:ASN:OD1	1:K:182:ASN:HA	2.20	0.40
1:L:36:TRP:CZ2	1:L:42:ALA:HA	2.54	0.40
1:L:90:TRP:NE1	1:L:96:ASP:OD1	2.54	0.40
1:L:125:LEU:HD12	1:L:125:LEU:C	2.44	0.40
1:L:165:SER:OG	1:L:198:GLU:OE1	2.38	0.40
1:L:627:PHE:O	1:L:628:GLN:HG2	2.21	0.40
1:L:679:LEU:HD23	1:L:679:LEU:HA	1.55	0.40
1:L:708:TRP:CD1	1:L:708:TRP:H	2.40	0.40
1:L:931:PHE:CD1	1:L:931:PHE:C	2.99	0.40
1:M:35:SER:O	1:M:36:TRP:C	2.64	0.40
1:M:69:VAL:CG1	1:M:70:PRO:CD	2.99	0.40
1:M:377:LEU:HD21	1:M:708:TRP:CB	2.51	0.40
1:M:563:GLN:N	3:M:1211:HOH:O	2.53	0.40
1:M:654:TRP:CE3	1:M:654:TRP:C	3.00	0.40
1:M:682:LEU:HB3	1:M:683:PRO:CD	2.46	0.40
1:M:719:GLN:NE2	1:M:914:CYS:HB3	2.36	0.40
1:M:937:LEU:CD2	1:M:939:CYS:SG	3.08	0.40
1:N:361:PRO:HG3	1:N:609:ALA:O	2.21	0.40
1:N:375:ASP:O	1:N:379:MET:HB2	2.21	0.40
1:N:382:ASN:O	1:N:383:ASN:HB2	2.21	0.40
1:N:525:SER:O	1:N:526:LEU:C	2.61	0.40
1:N:654:TRP:NE1	1:N:666:GLY:CA	2.79	0.40
1:N:737:ILE:HB	1:N:738:PRO:HD2	2.03	0.40
1:N:777:LEU:CD2	1:N:889:ALA:CB	2.99	0.40
1:N:925:MET:HB3	1:N:925:MET:HE3	1.59	0.40
1:O:237:ARG:CG	1:O:237:ARG:NH1	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:380:LYS:HB3	1:O:380:LYS:HE2	1.95	0.40
1:O:701:VAL:HA	1:O:713:HIS:O	2.21	0.40
1:O:795:VAL:O	1:O:796:SER:C	2.64	0.40
1:P:29:ALA:C	1:P:30:HIS:CD2	2.99	0.40
1:P:106:PRO:HD3	1:P:204:ARG:HH12	1.86	0.40
1:P:450:HIS:O	1:P:451:PRO:C	2.65	0.40
1:P:777:LEU:CD2	1:P:889:ALA:CB	2.99	0.40
1:P:777:LEU:CD2	1:P:889:ALA:HB2	2.50	0.40
1:P:784:PHE:C	1:P:785:THR:HG23	2.46	0.40
1:P:832:ASP:O	1:P:833:ALA:HB2	2.22	0.40
1:P:948:PRO:HG2	1:P:949:HIS:CE1	2.56	0.40
1:A:23:GLN:NE2	1:A:23:GLN:C	2.79	0.40
1:A:78:LEU:CB	1:A:79:PRO:HD2	2.44	0.40
1:A:203:TRP:C	1:A:204:ARG:HD3	2.46	0.40
1:A:210:ARG:NH1	1:A:395:HIS:N	2.70	0.40
1:A:682:LEU:CB	1:A:683:PRO:CD	2.99	0.40
1:B:63:PHE:HB3	1:B:64:PRO:HD2	2.03	0.40
1:B:237:ARG:HG3	1:B:237:ARG:HH11	1.85	0.40
1:B:782:ASP:HA	1:B:884:LEU:CD2	2.43	0.40
1:B:802:ASP:O	1:B:808:GLU:HG3	2.22	0.40
1:B:995:GLY:C	1:B:997:ASP:N	2.80	0.40
1:C:66:PRO:O	1:C:68:ALA:N	2.55	0.40
1:D:577:LYS:HD3	1:D:585:TRP:CZ2	2.56	0.40
1:D:894:ARG:NH1	1:D:920:LEU:HA	2.37	0.40
1:E:105:TYR:CE1	1:E:199:ASP:HB2	2.57	0.40
1:E:129:VAL:HG21	1:E:182:ASN:ND2	2.37	0.40
1:E:429:ASP:OD1	1:E:432:TRP:HD1	2.04	0.40
1:E:682:LEU:HD23	1:E:682:LEU:HA	1.64	0.40
1:E:961:ARG:O	1:E:979:GLU:HG3	2.21	0.40
1:E:972:HIS:HB2	1:E:974:HIS:CE1	2.56	0.40
1:E:1020:TRP:C	1:E:1020:TRP:CD1	2.99	0.40
1:F:46:ARG:HB3	1:F:47:PRO:HD2	2.04	0.40
1:F:125:LEU:O	1:F:183:ARG:HA	2.22	0.40
1:F:232:ASN:OD1	1:F:232:ASN:N	2.55	0.40
1:F:599:ARG:HB2	1:F:600:GLN:H	1.59	0.40
1:F:807:VAL:CG1	1:F:808:GLU:N	2.81	0.40
1:G:86:VAL:CG1	1:G:87:PRO:N	2.80	0.40
1:G:147:ASN:CA	1:G:165:SER:HB3	2.52	0.40
1:G:368:ASP:O	1:G:372:MET:HG3	2.22	0.40
1:G:606:LEU:O	1:G:614:HIS:HB2	2.22	0.40
1:H:102:ASN:HB3	3:H:1219:HOH:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:214:LEU:HD23	1:H:214:LEU:HA	1.90	0.40
1:H:330:VAL:HG12	1:H:331:GLY:N	2.36	0.40
1:H:371:THR:O	1:H:372:MET:C	2.64	0.40
1:I:31:PRO:CB	1:I:32:PRO:HD2	2.51	0.40
1:J:117:GLU:N	1:J:117:GLU:CD	2.80	0.40
1:J:166:ARG:HB3	1:J:393:PRO:HG2	2.04	0.40
1:J:227:VAL:HG12	1:J:240:LEU:CD1	2.52	0.40
1:J:392:TYR:HB2	1:J:393:PRO:HD2	2.03	0.40
1:J:482:ARG:HA	1:J:483:PRO:HD3	1.91	0.40
1:J:612:THR:HA	1:J:613:PRO:HD3	1.78	0.40
1:K:30:HIS:ND1	1:K:31:PRO:O	2.29	0.40
1:K:387:VAL:HG21	1:K:398:TRP:HZ2	1.87	0.40
1:K:399:TYR:O	1:K:400:THR:C	2.62	0.40
1:K:471:LEU:O	1:K:475:ILE:HG13	2.22	0.40
1:K:507:ASP:OD1	1:K:521:LYS:HE3	2.21	0.40
1:K:559:TYR:CD1	1:K:559:TYR:N	2.90	0.40
1:K:645:ARG:HH22	1:K:648:ASP:H	1.68	0.40
1:K:868:VAL:CG1	1:K:869:ASP:N	2.79	0.40
1:K:947:GLY:HA3	1:K:948:PRO:HD2	1.82	0.40
1:K:1013:ARG:NH2	1:L:954:ASP:CG	2.80	0.40
1:L:27:LEU:HD12	1:L:140:ARG:HD3	2.04	0.40
1:L:40:GLU:CD	1:L:43:ARG:NH1	2.79	0.40
1:L:118:ASN:HA	1:L:119:PRO:HD2	1.82	0.40
1:L:210:ARG:NH1	1:L:394:ASN:C	2.78	0.40
1:L:533:LEU:HD12	1:L:534:ILE:N	2.36	0.40
1:L:687:GLN:N	1:L:688:PRO:HD3	2.35	0.40
1:L:802:ASP:O	1:L:804:ASN:N	2.55	0.40
1:L:833:ALA:CB	1:L:859:ASP:HA	2.51	0.40
1:L:903:GLN:O	1:L:904:GLU:C	2.65	0.40
1:M:38:ASN:HD21	1:M:41:GLU:N	2.15	0.40
1:M:50:GLN:O	1:M:215:LEU:HA	2.21	0.40
1:M:166:ARG:HG3	1:M:392:TYR:CB	2.43	0.40
1:M:190:ARG:HG2	1:M:206:SER:CB	2.51	0.40
1:M:231:PHE:CD1	1:M:231:PHE:N	2.89	0.40
1:M:432:TRP:O	1:M:435:ALA:HB3	2.20	0.40
1:M:540:HIS:ND1	1:M:999:TRP:CZ3	2.90	0.40
1:N:110:ASN:O	1:N:113:PHE:N	2.55	0.40
1:N:350:LEU:HD12	1:N:350:LEU:HA	1.85	0.40
1:O:166:ARG:HA	1:O:166:ARG:HD2	1.84	0.40
1:O:227:VAL:CG1	1:O:228:ALA:N	2.84	0.40
1:O:394:ASN:O	1:O:395:HIS:C	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:36:TRP:NE1	1:P:41:GLU:C	2.79	0.40
1:P:59:ARG:HA	1:P:82:ASP:O	2.22	0.40
1:P:62:TRP:C	1:P:63:PHE:CD1	3.00	0.40
1:P:166:ARG:HB2	1:P:414:ASN:ND2	2.26	0.40
1:P:253:TYR:C	1:P:255:ARG:HH11	2.29	0.40
1:P:327:ALA:O	1:P:328:CYS:HB3	2.21	0.40
1:P:740:LEU:HD13	1:P:749:ILE:HD11	2.04	0.40
1:P:788:PRO:CB	1:P:807:VAL:CG2	3.00	0.40
1:P:906:TYR:N	1:P:906:TYR:HD1	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1019/1023 (100%)	909 (89%)	92 (9%)	18 (2%)	6 12
1	B	1019/1023 (100%)	914 (90%)	85 (8%)	20 (2%)	6 10
1	C	1019/1023 (100%)	919 (90%)	81 (8%)	19 (2%)	6 11
1	D	1019/1023 (100%)	910 (89%)	98 (10%)	11 (1%)	11 22
1	E	1019/1023 (100%)	842 (83%)	135 (13%)	42 (4%)	2 3
1	F	1019/1023 (100%)	892 (88%)	101 (10%)	26 (3%)	4 7
1	G	1019/1023 (100%)	893 (88%)	101 (10%)	25 (2%)	4 7
1	H	1019/1023 (100%)	845 (83%)	140 (14%)	34 (3%)	3 4
1	I	1019/1023 (100%)	884 (87%)	111 (11%)	24 (2%)	4 8
1	J	1019/1023 (100%)	887 (87%)	118 (12%)	14 (1%)	9 17
1	K	1019/1023 (100%)	855 (84%)	131 (13%)	33 (3%)	3 4
1	L	1019/1023 (100%)	838 (82%)	146 (14%)	35 (3%)	3 4
1	M	1019/1023 (100%)	836 (82%)	127 (12%)	56 (6%)	1 1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	N	1019/1023 (100%)	875 (86%)	117 (12%)	27 (3%)	4 7
1	O	1019/1023 (100%)	889 (87%)	102 (10%)	28 (3%)	4 6
1	P	1019/1023 (100%)	797 (78%)	164 (16%)	58 (6%)	1 1
All	All	16304/16368 (100%)	13985 (86%)	1849 (11%)	470 (3%)	3 5

All (470) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	252	ASP
1	A	277	GLU
1	A	389	CYS
1	A	541	ALA
1	A	659	ASP
1	B	252	ASP
1	B	425	ARG
1	B	659	ASP
1	B	688	PRO
1	C	137	GLY
1	C	425	ARG
1	D	252	ASP
1	E	27	LEU
1	E	119	PRO
1	E	204	ARG
1	E	211	ASP
1	E	252	ASP
1	E	274	PHE
1	E	425	ARG
1	E	448	ARG
1	E	647	SER
1	F	45	ASP
1	F	339	ASN
1	F	425	ARG
1	G	155	ASN
1	G	252	ASP
1	G	389	CYS
1	G	540	HIS
1	G	740	LEU
1	G	741	THR
1	G	937	LEU
1	H	27	LEU
1	H	155	ASN

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Mol	Chain	Res	Type
1	H	211	ASP
1	H	252	ASP
1	H	550	ALA
1	H	765	LEU
1	I	27	LEU
1	I	45	ASP
1	I	274	PHE
1	I	540	HIS
1	I	937	LEU
1	J	425	ARG
1	K	135	GLN
1	K	252	ASP
1	K	659	ASP
1	K	979	GLU
1	L	150	PHE
1	L	174	SER
1	L	252	ASP
1	L	374	GLN
1	L	425	ARG
1	L	448	ARG
1	L	488	GLY
1	L	541	ALA
1	L	581	ASN
1	L	1009	LEU
1	M	27	LEU
1	M	36	TRP
1	M	67	GLU
1	M	137	GLY
1	M	164	ASP
1	M	211	ASP
1	M	252	ASP
1	M	277	GLU
1	M	414	ASN
1	M	425	ARG
1	M	448	ARG
1	M	491	ALA
1	M	540	HIS
1	M	541	ALA
1	N	45	ASP
1	N	137	GLY
1	N	201	ASP
1	N	274	PHE

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Mol	Chain	Res	Type
1	N	396	PRO
1	N	425	ARG
1	N	591	ASP
1	N	722	LEU
1	N	937	LEU
1	O	8	ALA
1	O	137	GLY
1	O	425	ARG
1	O	647	SER
1	P	35	SER
1	P	136	GLU
1	P	137	GLY
1	P	159	VAL
1	P	252	ASP
1	P	289	VAL
1	P	414	ASN
1	P	448	ARG
1	P	461	GLU
1	P	540	HIS
1	P	541	ALA
1	P	649	ASN
1	P	909	ARG
1	P	924	ASP
1	P	936	GLY
1	A	540	HIS
1	A	609	ALA
1	B	46	ARG
1	B	609	ALA
1	B	831	ALA
1	C	67	GLU
1	C	579	ASP
1	D	35	SER
1	D	235	PHE
1	D	591	ASP
1	E	41	GLU
1	E	45	ASP
1	E	137	GLY
1	E	199	ASP
1	E	275	GLY
1	E	514	ALA
1	E	546	LEU
1	E	589	GLY

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Mol	Chain	Res	Type
1	E	707	ALA
1	E	891	VAL
1	F	67	GLU
1	F	647	SER
1	F	688	PRO
1	F	690	SER
1	F	803	PRO
1	G	274	PHE
1	G	461	GLU
1	G	541	ALA
1	G	580	GLU
1	G	659	ASP
1	G	815	HIS
1	H	14	ARG
1	H	275	GLY
1	H	414	ASN
1	H	448	ARG
1	H	549	PHE
1	H	590	GLY
1	H	601	PHE
1	H	936	GLY
1	I	425	ARG
1	I	541	ALA
1	I	815	HIS
1	J	71	GLU
1	J	274	PHE
1	J	609	ALA
1	K	174	SER
1	K	233	ASP
1	K	339	ASN
1	K	340	GLY
1	K	448	ARG
1	K	461	GLU
1	K	601	PHE
1	K	846	GLY
1	K	936	GLY
1	L	31	PRO
1	L	196	TYR
1	L	461	GLU
1	L	489	GLY
1	L	540	HIS
1	L	609	ALA

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Mol	Chain	Res	Type
1	L	765	LEU
1	L	936	GLY
1	M	14	ARG
1	M	82	ASP
1	M	90	TRP
1	M	92	MET
1	M	144	ASP
1	M	196	TYR
1	M	372	MET
1	M	390	SER
1	M	452	SER
1	M	891	VAL
1	N	211	ASP
1	N	281	GLU
1	N	874	SER
1	O	7	LEU
1	O	45	ASP
1	O	461	GLU
1	O	930	VAL
1	P	158	TRP
1	P	164	ASP
1	P	275	GLY
1	P	298	PRO
1	P	480	PRO
1	P	481	SER
1	P	546	LEU
1	P	601	PHE
1	P	609	ALA
1	P	617	LEU
1	P	812	ALA
1	A	164	ASP
1	A	273	PRO
1	B	155	ASN
1	B	448	ARG
1	B	461	GLU
1	B	980	GLU
1	C	414	ASN
1	C	540	HIS
1	C	674	PRO
1	C	803	PRO
1	D	599	ARG
1	D	1006	GLU

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Mol	Chain	Res	Type
1	E	36	TRP
1	E	40	GLU
1	E	104	THR
1	E	124	SER
1	E	174	SER
1	E	396	PRO
1	E	418	HIS
1	E	511	PRO
1	E	540	HIS
1	E	591	ASP
1	E	609	ALA
1	E	928	PRO
1	F	27	LEU
1	F	252	ASP
1	F	580	GLU
1	F	609	ALA
1	F	788	PRO
1	G	35	SER
1	G	591	ASP
1	G	1006	GLU
1	H	30	HIS
1	H	46	ARG
1	H	67	GLU
1	H	425	ARG
1	H	461	GLU
1	I	179	ALA
1	I	206	SER
1	I	398	TRP
1	I	609	ALA
1	J	133	TRP
1	J	252	ASP
1	J	923	SER
1	K	164	ASP
1	K	201	ASP
1	K	580	GLU
1	K	751	LEU
1	K	765	LEU
1	K	824	GLN
1	K	1009	LEU
1	L	119	PRO
1	L	580	GLU
1	L	877	PRO

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Mol	Chain	Res	Type
1	L	937	LEU
1	M	31	PRO
1	M	419	GLY
1	M	461	GLU
1	M	580	GLU
1	M	586	SER
1	M	601	PHE
1	M	609	ALA
1	M	1006	GLU
1	N	41	GLU
1	N	46	ARG
1	N	47	PRO
1	N	765	LEU
1	O	318	ALA
1	O	324	GLU
1	O	369	GLU
1	O	540	HIS
1	O	541	ALA
1	O	553	TRP
1	O	722	LEU
1	O	845	GLN
1	P	5	ASP
1	P	119	PRO
1	P	144	ASP
1	P	274	PHE
1	P	306	PRO
1	P	549	PHE
1	P	550	ALA
1	P	591	ASP
1	P	690	SER
1	P	746	ASP
1	P	770	ILE
1	P	811	LYS
1	P	997	ASP
1	A	425	ARG
1	A	675	GLN
1	A	751	LEU
1	B	414	ASN
1	C	164	ASP
1	C	609	ALA
1	C	765	LEU
1	C	787	ALA

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Mol	Chain	Res	Type
1	D	488	GLY
1	D	553	TRP
1	E	66	PRO
1	E	968	MET
1	E	997	ASP
1	F	174	SER
1	F	177	LEU
1	G	119	PRO
1	G	273	PRO
1	H	150	PHE
1	H	274	PHE
1	H	591	ASP
1	H	937	LEU
1	I	24	LEU
1	I	79	PRO
1	I	119	PRO
1	I	389	CYS
1	I	396	PRO
1	I	765	LEU
1	K	604	ASN
1	K	647	SER
1	K	690	SER
1	K	738	PRO
1	K	803	PRO
1	K	937	LEU
1	L	617	LEU
1	L	875	ASP
1	M	10	VAL
1	M	46	ARG
1	M	150	PHE
1	M	396	PRO
1	M	488	GLY
1	M	599	ARG
1	M	707	ALA
1	M	738	PRO
1	N	35	SER
1	N	124	SER
1	N	546	LEU
1	O	70	PRO
1	O	370	GLN
1	O	1006	GLU
1	P	389	CYS

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Mol	Chain	Res	Type
1	P	418	HIS
1	P	824	GLN
1	P	949	HIS
1	P	950	GLN
1	A	370	GLN
1	A	511	PRO
1	A	546	LEU
1	A	839	ALA
1	A	845	GLN
1	B	524	LEU
1	B	937	LEU
1	C	591	ASP
1	C	937	LEU
1	D	928	PRO
1	E	67	GLU
1	E	318	ALA
1	E	414	ASN
1	E	904	GLU
1	F	281	GLU
1	F	461	GLU
1	F	684	GLU
1	F	765	LEU
1	F	922	LEU
1	G	31	PRO
1	G	275	GLY
1	G	909	ARG
1	H	135	GLN
1	H	909	ARG
1	H	928	PRO
1	I	36	TRP
1	I	137	GLY
1	I	192	SER
1	I	822	LEU
1	I	961	ARG
1	J	119	PRO
1	J	233	ASP
1	J	264	GLU
1	J	928	PRO
1	K	11	LEU
1	K	418	HIS
1	K	541	ALA
1	L	233	ASP

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Mol	Chain	Res	Type
1	L	486	TYR
1	L	788	PRO
1	L	803	PRO
1	L	891	VAL
1	M	119	PRO
1	M	328	CYS
1	M	690	SER
1	M	788	PRO
1	M	845	GLN
1	M	909	ARG
1	N	7	LEU
1	N	39	SER
1	N	177	LEU
1	N	798	ALA
1	N	1005	ALA
1	O	132	SER
1	O	136	GLU
1	O	448	ARG
1	O	688	PRO
1	O	815	HIS
1	P	9	VAL
1	P	135	GLN
1	P	370	GLN
1	P	374	GLN
1	P	743	SER
1	P	930	VAL
1	P	934	GLU
1	A	488	GLY
1	B	47	PRO
1	B	164	ASP
1	B	633	GLY
1	C	396	PRO
1	D	201	ASP
1	E	788	PRO
1	F	1006	GLU
1	G	589	GLY
1	H	119	PRO
1	H	289	VAL
1	H	371	THR
1	H	541	ALA
1	H	589	GLY
1	H	879	PRO

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Mol	Chain	Res	Type
1	J	1006	GLU
1	K	10	VAL
1	K	92	MET
1	K	539	ALA
1	K	683	PRO
1	L	527	PRO
1	L	599	ARG
1	L	601	PHE
1	M	474	TRP
1	M	882	ILE
1	M	924	ASP
1	N	155	ASN
1	O	206	SER
1	P	30	HIS
1	P	46	ARG
1	C	273	PRO
1	C	936	GLY
1	F	46	ARG
1	I	454	ILE
1	L	94	GLY
1	M	32	PRO
1	M	928	PRO
1	N	674	PRO
1	O	891	VAL
1	P	396	PRO
1	P	490	GLY
1	C	119	PRO
1	E	146	VAL
1	G	930	VAL
1	H	787	ALA
1	J	66	PRO
1	J	396	PRO
1	L	79	PRO
1	L	787	ALA
1	M	9	VAL
1	M	803	PRO
1	N	119	PRO
1	P	395	HIS
1	P	489	GLY
1	B	488	GLY
1	F	590	GLY
1	F	891	VAL

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Mol	Chain	Res	Type
1	F	1001	PRO
1	G	891	VAL
1	H	47	PRO
1	M	451	PRO
1	O	662	PRO
1	O	803	PRO
1	B	936	GLY
1	D	738	PRO
1	F	928	PRO
1	G	803	PRO
1	M	879	PRO
1	P	483	PRO
1	B	480	PRO
1	C	788	PRO
1	E	298	PRO
1	E	488	GLY
1	M	787	ALA

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	873/875 (100%)	716 (82%)	157 (18%)	2	3
1	B	873/875 (100%)	700 (80%)	173 (20%)	1	2
1	C	873/875 (100%)	737 (84%)	136 (16%)	2	5
1	D	873/875 (100%)	703 (80%)	170 (20%)	1	2
1	E	873/875 (100%)	669 (77%)	204 (23%)	1	1
1	F	873/875 (100%)	717 (82%)	156 (18%)	2	3
1	G	873/875 (100%)	705 (81%)	168 (19%)	1	2
1	H	873/875 (100%)	671 (77%)	202 (23%)	1	1
1	I	873/875 (100%)	705 (81%)	168 (19%)	1	2
1	J	873/875 (100%)	729 (84%)	144 (16%)	2	4
1	K	873/875 (100%)	696 (80%)	177 (20%)	1	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	L	873/875 (100%)	681 (78%)	192 (22%)	1 2
1	M	873/875 (100%)	653 (75%)	220 (25%)	0 1
1	N	873/875 (100%)	696 (80%)	177 (20%)	1 2
1	O	873/875 (100%)	704 (81%)	169 (19%)	1 2
1	P	873/875 (100%)	644 (74%)	229 (26%)	0 1
All	All	13968/14000 (100%)	11126 (80%)	2842 (20%)	1 2

All (2842) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ILE
1	A	4	THR
1	A	11	LEU
1	A	13	ARG
1	A	14	ARG
1	A	23	GLN
1	A	24	LEU
1	A	49	GLN
1	A	51	LEU
1	A	52	ARG
1	A	54	LEU
1	A	59	ARG
1	A	67	GLU
1	A	71	GLU
1	A	72	SER
1	A	80	GLU
1	A	89	ASN
1	A	90	TRP
1	A	101	THR
1	A	102	ASN
1	A	108	THR
1	A	114	VAL
1	A	116	THR
1	A	117	GLU
1	A	124	SER
1	A	128	ASN
1	A	131	GLU
1	A	134	LEU
1	A	136	GLU
1	A	165	SER

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Mol	Chain	Res	Type
1	A	186	VAL
1	A	190	ARG
1	A	197	LEU
1	A	204	ARG
1	A	206	SER
1	A	213	SER
1	A	219	THR
1	A	227	VAL
1	A	230	ARG
1	A	231	PHE
1	A	236	SER
1	A	237	ARG
1	A	243	GLU
1	A	246	MET
1	A	247	CYS
1	A	249	GLU
1	A	250	LEU
1	A	259	SER
1	A	277	GLU
1	A	279	ILE
1	A	282	ARG
1	A	296	GLU
1	A	300	LEU
1	A	310	ARG
1	A	316	HIS
1	A	323	ILE
1	A	329	ASP
1	A	333	ARG
1	A	343	LEU
1	A	347	LYS
1	A	356	ARG
1	A	358	GLU
1	A	385	ASN
1	A	387	VAL
1	A	395	HIS
1	A	404	ARG
1	A	417	THR
1	A	424	ASN
1	A	431	ARG
1	A	448	ARG
1	A	461	GLU
1	A	467	ASN

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Mol	Chain	Res	Type
1	A	473	ARG
1	A	485	GLN
1	A	494	THR
1	A	519	SER
1	A	522	LYS
1	A	529	GLU
1	A	531	ARG
1	A	533	LEU
1	A	545	SER
1	A	546	LEU
1	A	554	GLN
1	A	571	VAL
1	A	576	ILE
1	A	600	GLN
1	A	604	ASN
1	A	618	THR
1	A	630	ARG
1	A	632	SER
1	A	634	GLN
1	A	635	THR
1	A	639	THR
1	A	645	ARG
1	A	651	LEU
1	A	652	LEU
1	A	661	LYS
1	A	665	SER
1	A	667	GLU
1	A	672	VAL
1	A	681	GLU
1	A	689	GLU
1	A	690	SER
1	A	697	THR
1	A	699	ARG
1	A	714	ILE
1	A	719	GLN
1	A	721	ARG
1	A	728	VAL
1	A	734	SER
1	A	737	ILE
1	A	749	ILE
1	A	750	GLU
1	A	768	MET

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Mol	Chain	Res	Type
1	A	773	LYS
1	A	781	ARG
1	A	782	ASP
1	A	790	ASP
1	A	796	SER
1	A	799	THR
1	A	804	ASN
1	A	819	GLU
1	A	823	LEU
1	A	824	GLN
1	A	828	ASP
1	A	837	THR
1	A	843	GLN
1	A	845	GLN
1	A	849	LEU
1	A	850	PHE
1	A	854	LYS
1	A	856	TYR
1	A	858	ILE
1	A	863	GLN
1	A	866	ILE
1	A	867	THR
1	A	868	VAL
1	A	881	ARG
1	A	885	ASN
1	A	893	GLU
1	A	894	ARG
1	A	925	MET
1	A	934	GLU
1	A	944	LEU
1	A	951	TRP
1	A	956	GLN
1	A	961	ARG
1	A	968	MET
1	A	984	LEU
1	A	986	ILE
1	A	991	MET
1	A	997	ASP
1	A	998	SER
1	A	1006	GLU
1	A	1013	ARG
1	A	1018	LEU

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Mol	Chain	Res	Type
1	A	1023	LYS
1	B	3	ILE
1	B	7	LEU
1	B	9	VAL
1	B	11	LEU
1	B	24	LEU
1	B	46	ARG
1	B	48	SER
1	B	49	GLN
1	B	52	ARG
1	B	57	GLU
1	B	62	TRP
1	B	67	GLU
1	B	71	GLU
1	B	72	SER
1	B	76	CYS
1	B	80	GLU
1	B	85	VAL
1	B	90	TRP
1	B	99	ILE
1	B	101	THR
1	B	114	VAL
1	B	124	SER
1	B	128	ASN
1	B	129	VAL
1	B	131	GLU
1	B	134	LEU
1	B	135	GLN
1	B	136	GLU
1	B	140	ARG
1	B	141	ILE
1	B	144	ASP
1	B	165	SER
1	B	178	ARG
1	B	181	GLU
1	B	189	LEU
1	B	190	ARG
1	B	210	ARG
1	B	211	ASP
1	B	213	SER
1	B	214	LEU
1	B	219	THR

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Mol	Chain	Res	Type
1	B	220	THR
1	B	237	ARG
1	B	240	LEU
1	B	243	GLU
1	B	246	MET
1	B	247	CYS
1	B	252	ASP
1	B	255	ARG
1	B	259	SER
1	B	262	GLN
1	B	264	GLU
1	B	267	VAL
1	B	269	SER
1	B	279	ILE
1	B	302	SER
1	B	310	ARG
1	B	314	GLU
1	B	321	THR
1	B	322	LEU
1	B	324	GLU
1	B	333	ARG
1	B	335	VAL
1	B	344	LEU
1	B	352	ARG
1	B	400	THR
1	B	404	ARG
1	B	420	MET
1	B	423	MET
1	B	424	ASN
1	B	431	ARG
1	B	437	SER
1	B	446	ARG
1	B	448	ARG
1	B	455	ILE
1	B	461	GLU
1	B	467	ASN
1	B	473	ARG
1	B	494	THR
1	B	499	ILE
1	B	505	ARG
1	B	508	GLU
1	B	515	VAL

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Mol	Chain	Res	Type
1	B	519	SER
1	B	522	LYS
1	B	523	TRP
1	B	529	GLU
1	B	533	LEU
1	B	538	TYR
1	B	545	SER
1	B	546	LEU
1	B	551	LYS
1	B	554	GLN
1	B	576	ILE
1	B	580	GLU
1	B	599	ARG
1	B	600	GLN
1	B	630	ARG
1	B	632	SER
1	B	634	GLN
1	B	643	LEU
1	B	645	ARG
1	B	651	LEU
1	B	655	MET
1	B	656	VAL
1	B	661	LYS
1	B	663	LEU
1	B	670	LEU
1	B	672	VAL
1	B	678	GLN
1	B	680	ILE
1	B	689	GLU
1	B	690	SER
1	B	719	GLN
1	B	720	TRP
1	B	726	LEU
1	B	729	THR
1	B	734	SER
1	B	737	ILE
1	B	741	THR
1	B	743	SER
1	B	748	CYS
1	B	750	GLU
1	B	751	LEU
1	B	754	LYS

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Mol	Chain	Res	Type
1	B	755	ARG
1	B	761	GLN
1	B	768	MET
1	B	774	LYS
1	B	775	GLN
1	B	777	LEU
1	B	778	THR
1	B	781	ARG
1	B	789	LEU
1	B	796	SER
1	B	799	THR
1	B	817	GLN
1	B	819	GLU
1	B	822	LEU
1	B	829	THR
1	B	832	ASP
1	B	834	VAL
1	B	836	ILE
1	B	850	PHE
1	B	854	LYS
1	B	857	ARG
1	B	858	ILE
1	B	866	ILE
1	B	867	THR
1	B	868	VAL
1	B	876	THR
1	B	881	ARG
1	B	885	ASN
1	B	893	GLU
1	B	910	LEU
1	B	923	SER
1	B	934	GLU
1	B	935	ASN
1	B	937	LEU
1	B	938	ARG
1	B	942	ARG
1	B	950	GLN
1	B	951	TRP
1	B	956	GLN
1	B	968	MET
1	B	975	LEU
1	B	986	ILE

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Mol	Chain	Res	Type
1	B	993	ILE
1	B	997	ASP
1	B	1002	SER
1	B	1006	GLU
1	B	1016	TYR
1	B	1019	VAL
1	C	3	ILE
1	C	7	LEU
1	C	13	ARG
1	C	24	LEU
1	C	37	ARG
1	C	38	ASN
1	C	48	SER
1	C	49	GLN
1	C	52	ARG
1	C	67	GLU
1	C	75	GLU
1	C	77	ASP
1	C	80	GLU
1	C	90	TRP
1	C	92	MET
1	C	101	THR
1	C	114	VAL
1	C	116	THR
1	C	123	TYR
1	C	125	LEU
1	C	131	GLU
1	C	132	SER
1	C	134	LEU
1	C	138	GLN
1	C	139	THR
1	C	165	SER
1	C	166	ARG
1	C	178	ARG
1	C	187	MET
1	C	189	LEU
1	C	190	ARG
1	C	202	MET
1	C	213	SER
1	C	219	THR
1	C	232	ASN
1	C	237	ARG

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Mol	Chain	Res	Type
1	C	246	MET
1	C	247	CYS
1	C	250	LEU
1	C	258	VAL
1	C	259	SER
1	C	262	GLN
1	C	265	THR
1	C	279	ILE
1	C	305	ILE
1	C	310	ARG
1	C	314	GLU
1	C	333	ARG
1	C	336	ARG
1	C	372	MET
1	C	374	GLN
1	C	385	ASN
1	C	397	LEU
1	C	424	ASN
1	C	437	SER
1	C	438	GLU
1	C	439	ARG
1	C	442	ARG
1	C	448	ARG
1	C	471	LEU
1	C	473	ARG
1	C	475	ILE
1	C	478	VAL
1	C	499	ILE
1	C	529	GLU
1	C	530	THR
1	C	533	LEU
1	C	545	SER
1	C	546	LEU
1	C	554	GLN
1	C	571	VAL
1	C	576	ILE
1	C	581	ASN
1	C	583	ASN
1	C	599	ARG
1	C	600	GLN
1	C	603	MET
1	C	645	ARG

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Mol	Chain	Res	Type
1	C	651	LEU
1	C	655	MET
1	C	656	VAL
1	C	659	ASP
1	C	661	LYS
1	C	670	LEU
1	C	672	VAL
1	C	680	ILE
1	C	689	GLU
1	C	690	SER
1	C	714	ILE
1	C	719	GLN
1	C	727	SER
1	C	728	VAL
1	C	737	ILE
1	C	741	THR
1	C	743	SER
1	C	748	CYS
1	C	749	ILE
1	C	751	LEU
1	C	766	SER
1	C	768	MET
1	C	773	LYS
1	C	776	LEU
1	C	781	ARG
1	C	799	THR
1	C	807	VAL
1	C	817	GLN
1	C	824	GLN
1	C	826	THR
1	C	832	ASP
1	C	836	ILE
1	C	837	THR
1	C	843	GLN
1	C	849	LEU
1	C	854	LYS
1	C	866	ILE
1	C	867	THR
1	C	868	VAL
1	C	874	SER
1	C	881	ARG
1	C	885	ASN

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Mol	Chain	Res	Type
1	C	910	LEU
1	C	917	ARG
1	C	923	SER
1	C	934	GLU
1	C	938	ARG
1	C	942	ARG
1	C	950	GLN
1	C	954	ASP
1	C	956	GLN
1	C	968	MET
1	C	980	GLU
1	C	986	ILE
1	C	1002	SER
1	C	1006	GLU
1	C	1018	LEU
1	C	1023	LYS
1	D	3	ILE
1	D	6	SER
1	D	7	LEU
1	D	13	ARG
1	D	14	ARG
1	D	21	VAL
1	D	24	LEU
1	D	27	LEU
1	D	40	GLU
1	D	48	SER
1	D	49	GLN
1	D	52	ARG
1	D	57	GLU
1	D	67	GLU
1	D	71	GLU
1	D	72	SER
1	D	80	GLU
1	D	85	VAL
1	D	90	TRP
1	D	95	TYR
1	D	101	THR
1	D	107	ILE
1	D	108	THR
1	D	114	VAL
1	D	116	THR
1	D	124	SER

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Mol	Chain	Res	Type
1	D	125	LEU
1	D	126	THR
1	D	129	VAL
1	D	131	GLU
1	D	134	LEU
1	D	141	ILE
1	D	142	ILE
1	D	166	ARG
1	D	169	SER
1	D	174	SER
1	D	181	GLU
1	D	186	VAL
1	D	189	LEU
1	D	190	ARG
1	D	193	ASP
1	D	202	MET
1	D	210	ARG
1	D	211	ASP
1	D	213	SER
1	D	219	THR
1	D	221	GLN
1	D	227	VAL
1	D	229	THR
1	D	237	ARG
1	D	243	GLU
1	D	246	MET
1	D	247	CYS
1	D	252	ASP
1	D	255	ARG
1	D	256	VAL
1	D	259	SER
1	D	264	GLU
1	D	267	VAL
1	D	277	GLU
1	D	279	ILE
1	D	289	VAL
1	D	295	VAL
1	D	296	GLU
1	D	300	LEU
1	D	310	ARG
1	D	312	VAL
1	D	314	GLU

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Mol	Chain	Res	Type
1	D	322	LEU
1	D	323	ILE
1	D	333	ARG
1	D	336	ARG
1	D	343	LEU
1	D	344	LEU
1	D	347	LYS
1	D	371	THR
1	D	376	ILE
1	D	379	MET
1	D	385	ASN
1	D	395	HIS
1	D	404	ARG
1	D	420	MET
1	D	433	LEU
1	D	439	ARG
1	D	445	GLN
1	D	448	ARG
1	D	461	GLU
1	D	467	ASN
1	D	473	ARG
1	D	475	ILE
1	D	477	SER
1	D	506	VAL
1	D	515	VAL
1	D	517	LYS
1	D	519	SER
1	D	521	LYS
1	D	522	LYS
1	D	525	SER
1	D	529	GLU
1	D	533	LEU
1	D	545	SER
1	D	546	LEU
1	D	551	LYS
1	D	586	SER
1	D	588	TYR
1	D	599	ARG
1	D	600	GLN
1	D	607	VAL
1	D	610	ASP
1	D	630	ARG

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Mol	Chain	Res	Type
1	D	632	SER
1	D	634	GLN
1	D	648	ASP
1	D	651	LEU
1	D	661	LYS
1	D	663	LEU
1	D	665	SER
1	D	670	LEU
1	D	672	VAL
1	D	684	GLU
1	D	689	GLU
1	D	690	SER
1	D	697	THR
1	D	699	ARG
1	D	710	GLU
1	D	719	GLN
1	D	730	LEU
1	D	740	LEU
1	D	743	SER
1	D	748	CYS
1	D	749	ILE
1	D	766	SER
1	D	768	MET
1	D	772	ASP
1	D	781	ARG
1	D	799	THR
1	D	819	GLU
1	D	822	LEU
1	D	824	GLN
1	D	826	THR
1	D	832	ASP
1	D	837	THR
1	D	838	THR
1	D	854	LYS
1	D	857	ARG
1	D	866	ILE
1	D	867	THR
1	D	881	ARG
1	D	884	LEU
1	D	891	VAL
1	D	893	GLU
1	D	894	ARG

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Mol	Chain	Res	Type
1	D	904	GLU
1	D	917	ARG
1	D	920	LEU
1	D	925	MET
1	D	931	PHE
1	D	938	ARG
1	D	950	GLN
1	D	951	TRP
1	D	956	GLN
1	D	968	MET
1	D	970	THR
1	D	986	ILE
1	D	991	MET
1	D	1002	SER
1	D	1006	GLU
1	D	1017	GLN
1	D	1018	LEU
1	D	1023	LYS
1	E	3	ILE
1	E	4	THR
1	E	6	SER
1	E	11	LEU
1	E	12	GLN
1	E	13	ARG
1	E	14	ARG
1	E	21	VAL
1	E	24	LEU
1	E	25	ASN
1	E	27	LEU
1	E	35	SER
1	E	39	SER
1	E	43	ARG
1	E	49	GLN
1	E	50	GLN
1	E	51	LEU
1	E	52	ARG
1	E	67	GLU
1	E	71	GLU
1	E	72	SER
1	E	76	CYS
1	E	77	ASP
1	E	78	LEU

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Mol	Chain	Res	Type
1	E	80	GLU
1	E	85	VAL
1	E	90	TRP
1	E	99	ILE
1	E	101	THR
1	E	107	ILE
1	E	108	THR
1	E	114	VAL
1	E	125	LEU
1	E	126	THR
1	E	128	ASN
1	E	129	VAL
1	E	131	GLU
1	E	134	LEU
1	E	138	GLN
1	E	139	THR
1	E	140	ARG
1	E	141	ILE
1	E	157	ARG
1	E	165	SER
1	E	166	ARG
1	E	173	LEU
1	E	174	SER
1	E	176	PHE
1	E	189	LEU
1	E	190	ARG
1	E	197	LEU
1	E	204	ARG
1	E	211	ASP
1	E	212	VAL
1	E	214	LEU
1	E	217	LYS
1	E	219	THR
1	E	221	GLN
1	E	237	ARG
1	E	246	MET
1	E	247	CYS
1	E	249	GLU
1	E	250	LEU
1	E	252	ASP
1	E	255	ARG
1	E	256	VAL

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Mol	Chain	Res	Type
1	E	258	VAL
1	E	259	SER
1	E	265	THR
1	E	277	GLU
1	E	288	ARG
1	E	289	VAL
1	E	293	LEU
1	E	300	LEU
1	E	310	ARG
1	E	312	VAL
1	E	314	GLU
1	E	321	THR
1	E	322	LEU
1	E	324	GLU
1	E	329	ASP
1	E	333	ARG
1	E	336	ARG
1	E	342	LEU
1	E	344	LEU
1	E	356	ARG
1	E	359	HIS
1	E	369	GLU
1	E	377	LEU
1	E	380	LYS
1	E	385	ASN
1	E	394	ASN
1	E	404	ARG
1	E	418	HIS
1	E	424	ASN
1	E	425	ARG
1	E	429	ASP
1	E	431	ARG
1	E	433	LEU
1	E	436	MET
1	E	437	SER
1	E	438	GLU
1	E	439	ARG
1	E	473	ARG
1	E	475	ILE
1	E	493	THR
1	E	499	ILE
1	E	502	MET

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Mol	Chain	Res	Type
1	E	510	GLN
1	E	515	VAL
1	E	522	LYS
1	E	533	LEU
1	E	545	SER
1	E	546	LEU
1	E	554	GLN
1	E	557	ARG
1	E	571	VAL
1	E	575	LEU
1	E	576	ILE
1	E	599	ARG
1	E	600	GLN
1	E	618	THR
1	E	630	ARG
1	E	634	GLN
1	E	635	THR
1	E	651	LEU
1	E	655	MET
1	E	661	LYS
1	E	667	GLU
1	E	672	VAL
1	E	689	GLU
1	E	690	SER
1	E	693	GLN
1	E	702	GLN
1	E	710	GLU
1	E	714	ILE
1	E	719	GLN
1	E	727	SER
1	E	728	VAL
1	E	730	LEU
1	E	740	LEU
1	E	748	CYS
1	E	750	GLU
1	E	754	LYS
1	E	768	MET
1	E	772	ASP
1	E	776	LEU
1	E	778	THR
1	E	781	ARG
1	E	789	LEU

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Mol	Chain	Res	Type
1	E	790	ASP
1	E	797	GLU
1	E	799	THR
1	E	800	ARG
1	E	817	GLN
1	E	819	GLU
1	E	826	THR
1	E	828	ASP
1	E	830	LEU
1	E	832	ASP
1	E	835	LEU
1	E	843	GLN
1	E	848	THR
1	E	850	PHE
1	E	854	LYS
1	E	858	ILE
1	E	861	SER
1	E	866	ILE
1	E	867	THR
1	E	868	VAL
1	E	874	SER
1	E	875	ASP
1	E	876	THR
1	E	881	ARG
1	E	884	LEU
1	E	890	GLN
1	E	891	VAL
1	E	893	GLU
1	E	894	ARG
1	E	898	LEU
1	E	903	GLN
1	E	916	ASP
1	E	917	ARG
1	E	920	LEU
1	E	925	MET
1	E	931	PHE
1	E	934	GLU
1	E	937	LEU
1	E	938	ARG
1	E	941	THR
1	E	942	ARG
1	E	950	GLN

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Mol	Chain	Res	Type
1	E	951	TRP
1	E	956	GLN
1	E	960	SER
1	E	961	ARG
1	E	966	GLN
1	E	970	THR
1	E	985	ASN
1	E	993	ILE
1	E	1006	GLU
1	E	1013	ARG
1	E	1017	GLN
1	E	1023	LYS
1	F	3	ILE
1	F	6	SER
1	F	13	ARG
1	F	38	ASN
1	F	40	GLU
1	F	43	ARG
1	F	45	ASP
1	F	52	ARG
1	F	67	GLU
1	F	72	SER
1	F	77	ASP
1	F	80	GLU
1	F	85	VAL
1	F	90	TRP
1	F	101	THR
1	F	102	ASN
1	F	107	ILE
1	F	114	VAL
1	F	126	THR
1	F	128	ASN
1	F	129	VAL
1	F	132	SER
1	F	136	GLU
1	F	170	GLU
1	F	173	LEU
1	F	182	ASN
1	F	184	LEU
1	F	189	LEU
1	F	193	ASP
1	F	198	GLU

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Mol	Chain	Res	Type
1	F	202	MET
1	F	211	ASP
1	F	213	SER
1	F	219	THR
1	F	220	THR
1	F	227	VAL
1	F	230	ARG
1	F	231	PHE
1	F	232	ASN
1	F	236	SER
1	F	237	ARG
1	F	240	LEU
1	F	246	MET
1	F	247	CYS
1	F	249	GLU
1	F	250	LEU
1	F	255	ARG
1	F	258	VAL
1	F	260	LEU
1	F	262	GLN
1	F	265	THR
1	F	278	ILE
1	F	279	ILE
1	F	293	LEU
1	F	299	LYS
1	F	305	ILE
1	F	308	LEU
1	F	310	ARG
1	F	314	GLU
1	F	323	ILE
1	F	324	GLU
1	F	333	ARG
1	F	336	ARG
1	F	376	ILE
1	F	385	ASN
1	F	395	HIS
1	F	400	THR
1	F	402	CYS
1	F	424	ASN
1	F	425	ARG
1	F	442	ARG
1	F	443	MET

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Mol	Chain	Res	Type
1	F	448	ARG
1	F	461	GLU
1	F	462	SER
1	F	471	LEU
1	F	473	ARG
1	F	477	SER
1	F	481	SER
1	F	515	VAL
1	F	519	SER
1	F	529	GLU
1	F	533	LEU
1	F	545	SER
1	F	546	LEU
1	F	551	LYS
1	F	571	VAL
1	F	600	GLN
1	F	630	ARG
1	F	634	GLN
1	F	635	THR
1	F	651	LEU
1	F	655	MET
1	F	656	VAL
1	F	658	LEU
1	F	661	LYS
1	F	665	SER
1	F	672	VAL
1	F	679	LEU
1	F	681	GLU
1	F	689	GLU
1	F	690	SER
1	F	706	THR
1	F	719	GLN
1	F	721	ARG
1	F	726	LEU
1	F	727	SER
1	F	728	VAL
1	F	730	LEU
1	F	743	SER
1	F	745	MET
1	F	748	CYS
1	F	749	ILE
1	F	751	LEU

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Mol	Chain	Res	Type
1	F	768	MET
1	F	770	ILE
1	F	772	ASP
1	F	774	LYS
1	F	777	LEU
1	F	778	THR
1	F	781	ARG
1	F	782	ASP
1	F	796	SER
1	F	800	ARG
1	F	801	ILE
1	F	807	VAL
1	F	811	LYS
1	F	817	GLN
1	F	822	LEU
1	F	824	GLN
1	F	826	THR
1	F	828	ASP
1	F	832	ASP
1	F	836	ILE
1	F	837	THR
1	F	850	PHE
1	F	857	ARG
1	F	858	ILE
1	F	866	ILE
1	F	867	THR
1	F	874	SER
1	F	876	THR
1	F	878	HIS
1	F	881	ARG
1	F	891	VAL
1	F	893	GLU
1	F	894	ARG
1	F	920	LEU
1	F	923	SER
1	F	938	ARG
1	F	942	ARG
1	F	956	GLN
1	F	968	MET
1	F	980	GLU
1	F	1006	GLU
1	F	1021	CYS

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Mol	Chain	Res	Type
1	G	3	ILE
1	G	9	VAL
1	G	13	ARG
1	G	14	ARG
1	G	22	THR
1	G	24	LEU
1	G	39	SER
1	G	43	ARG
1	G	49	GLN
1	G	52	ARG
1	G	54	LEU
1	G	67	GLU
1	G	69	VAL
1	G	71	GLU
1	G	72	SER
1	G	77	ASP
1	G	80	GLU
1	G	101	THR
1	G	107	ILE
1	G	114	VAL
1	G	124	SER
1	G	128	ASN
1	G	129	VAL
1	G	131	GLU
1	G	134	LEU
1	G	136	GLU
1	G	138	GLN
1	G	148	SER
1	G	152	LEU
1	G	165	SER
1	G	166	ARG
1	G	176	PHE
1	G	187	MET
1	G	189	LEU
1	G	190	ARG
1	G	204	ARG
1	G	208	ILE
1	G	211	ASP
1	G	213	SER
1	G	217	LYS
1	G	219	THR
1	G	230	ARG

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Mol	Chain	Res	Type
1	G	236	SER
1	G	237	ARG
1	G	243	GLU
1	G	246	MET
1	G	247	CYS
1	G	249	GLU
1	G	255	ARG
1	G	256	VAL
1	G	259	SER
1	G	262	GLN
1	G	265	THR
1	G	267	VAL
1	G	277	GLU
1	G	279	ILE
1	G	299	LYS
1	G	308	LEU
1	G	310	ARG
1	G	312	VAL
1	G	314	GLU
1	G	323	ILE
1	G	324	GLU
1	G	329	ASP
1	G	333	ARG
1	G	365	GLN
1	G	373	VAL
1	G	376	ILE
1	G	381	GLN
1	G	402	CYS
1	G	423	MET
1	G	424	ASN
1	G	431	ARG
1	G	433	LEU
1	G	437	SER
1	G	448	ARG
1	G	454	ILE
1	G	458	LEU
1	G	461	GLU
1	G	473	ARG
1	G	475	ILE
1	G	477	SER
1	G	499	ILE
1	G	508	GLU

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Mol	Chain	Res	Type
1	G	515	VAL
1	G	517	LYS
1	G	519	SER
1	G	522	LYS
1	G	533	LEU
1	G	534	ILE
1	G	545	SER
1	G	546	LEU
1	G	551	LYS
1	G	554	GLN
1	G	571	VAL
1	G	576	ILE
1	G	599	ARG
1	G	600	GLN
1	G	630	ARG
1	G	632	SER
1	G	634	GLN
1	G	635	THR
1	G	647	SER
1	G	651	LEU
1	G	658	LEU
1	G	659	ASP
1	G	661	LYS
1	G	665	SER
1	G	672	VAL
1	G	680	ILE
1	G	687	GLN
1	G	689	GLU
1	G	690	SER
1	G	697	THR
1	G	701	VAL
1	G	719	GLN
1	G	730	LEU
1	G	737	ILE
1	G	743	SER
1	G	745	MET
1	G	748	CYS
1	G	749	ILE
1	G	750	GLU
1	G	751	LEU
1	G	753	ASN
1	G	761	GLN

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Mol	Chain	Res	Type
1	G	768	MET
1	G	770	ILE
1	G	772	ASP
1	G	781	ARG
1	G	786	ARG
1	G	793	ILE
1	G	796	SER
1	G	809	ARG
1	G	819	GLU
1	G	822	LEU
1	G	823	LEU
1	G	824	GLN
1	G	826	THR
1	G	829	THR
1	G	832	ASP
1	G	837	THR
1	G	840	HIS
1	G	850	PHE
1	G	854	LYS
1	G	856	TYR
1	G	857	ARG
1	G	858	ILE
1	G	866	ILE
1	G	868	VAL
1	G	876	THR
1	G	881	ARG
1	G	896	ASN
1	G	906	TYR
1	G	910	LEU
1	G	937	LEU
1	G	938	ARG
1	G	956	GLN
1	G	970	THR
1	G	984	LEU
1	G	986	ILE
1	G	991	MET
1	G	997	ASP
1	G	1002	SER
1	G	1006	GLU
1	G	1017	GLN
1	G	1018	LEU
1	G	1021	CYS

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Mol	Chain	Res	Type
1	H	3	ILE
1	H	5	ASP
1	H	6	SER
1	H	7	LEU
1	H	11	LEU
1	H	13	ARG
1	H	14	ARG
1	H	21	VAL
1	H	22	THR
1	H	23	GLN
1	H	24	LEU
1	H	25	ASN
1	H	26	ARG
1	H	37	ARG
1	H	38	ASN
1	H	39	SER
1	H	40	GLU
1	H	49	GLN
1	H	52	ARG
1	H	67	GLU
1	H	71	GLU
1	H	72	SER
1	H	77	ASP
1	H	78	LEU
1	H	80	GLU
1	H	83	THR
1	H	86	VAL
1	H	90	TRP
1	H	102	ASN
1	H	104	THR
1	H	114	VAL
1	H	123	TYR
1	H	127	PHE
1	H	128	ASN
1	H	129	VAL
1	H	131	GLU
1	H	134	LEU
1	H	136	GLU
1	H	138	GLN
1	H	139	THR
1	H	148	SER
1	H	152	LEU

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Mol	Chain	Res	Type
1	H	165	SER
1	H	170	GLU
1	H	171	PHE
1	H	176	PHE
1	H	177	LEU
1	H	186	VAL
1	H	187	MET
1	H	190	ARG
1	H	192	SER
1	H	193	ASP
1	H	206	SER
1	H	211	ASP
1	H	212	VAL
1	H	213	SER
1	H	215	LEU
1	H	219	THR
1	H	221	GLN
1	H	227	VAL
1	H	229	THR
1	H	230	ARG
1	H	237	ARG
1	H	240	LEU
1	H	244	VAL
1	H	246	MET
1	H	247	CYS
1	H	253	TYR
1	H	255	ARG
1	H	257	THR
1	H	259	SER
1	H	265	THR
1	H	277	GLU
1	H	279	ILE
1	H	294	ASN
1	H	299	LYS
1	H	305	ILE
1	H	310	ARG
1	H	312	VAL
1	H	314	GLU
1	H	319	ASP
1	H	321	THR
1	H	322	LEU
1	H	333	ARG

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Mol	Chain	Res	Type
1	H	343	LEU
1	H	344	LEU
1	H	377	LEU
1	H	385	ASN
1	H	394	ASN
1	H	415	ILE
1	H	417	THR
1	H	424	ASN
1	H	425	ARG
1	H	433	LEU
1	H	438	GLU
1	H	439	ARG
1	H	444	VAL
1	H	448	ARG
1	H	454	ILE
1	H	461	GLU
1	H	462	SER
1	H	473	ARG
1	H	475	ILE
1	H	476	LYS
1	H	477	SER
1	H	499	ILE
1	H	502	MET
1	H	510	GLN
1	H	515	VAL
1	H	522	LYS
1	H	533	LEU
1	H	534	ILE
1	H	545	SER
1	H	546	LEU
1	H	549	PHE
1	H	558	GLN
1	H	559	TYR
1	H	571	VAL
1	H	581	ASN
1	H	591	ASP
1	H	599	ARG
1	H	600	GLN
1	H	604	ASN
1	H	610	ASP
1	H	623	GLN
1	H	630	ARG

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Mol	Chain	Res	Type
1	H	634	GLN
1	H	635	THR
1	H	637	GLU
1	H	645	ARG
1	H	651	LEU
1	H	652	LEU
1	H	655	MET
1	H	658	LEU
1	H	661	LYS
1	H	663	LEU
1	H	668	VAL
1	H	670	LEU
1	H	672	VAL
1	H	680	ILE
1	H	689	GLU
1	H	690	SER
1	H	697	THR
1	H	699	ARG
1	H	704	ASN
1	H	724	GLU
1	H	737	ILE
1	H	744	GLU
1	H	748	CYS
1	H	749	ILE
1	H	761	GLN
1	H	766	SER
1	H	768	MET
1	H	773	LYS
1	H	777	LEU
1	H	781	ARG
1	H	796	SER
1	H	799	THR
1	H	800	ARG
1	H	801	ILE
1	H	807	VAL
1	H	817	GLN
1	H	819	GLU
1	H	822	LEU
1	H	823	LEU
1	H	843	GLN
1	H	848	THR
1	H	854	LYS

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Mol	Chain	Res	Type
1	H	855	THR
1	H	856	TYR
1	H	857	ARG
1	H	858	ILE
1	H	866	ILE
1	H	867	THR
1	H	875	ASP
1	H	878	HIS
1	H	884	LEU
1	H	893	GLU
1	H	894	ARG
1	H	916	ASP
1	H	917	ARG
1	H	925	MET
1	H	931	PHE
1	H	937	LEU
1	H	938	ARG
1	H	942	ARG
1	H	951	TRP
1	H	956	GLN
1	H	961	ARG
1	H	965	GLN
1	H	966	GLN
1	H	968	MET
1	H	970	THR
1	H	972	HIS
1	H	984	LEU
1	H	986	ILE
1	H	991	MET
1	H	1006	GLU
1	H	1017	GLN
1	H	1018	LEU
1	H	1019	VAL
1	H	1021	CYS
1	I	3	ILE
1	I	6	SER
1	I	13	ARG
1	I	24	LEU
1	I	37	ARG
1	I	40	GLU
1	I	46	ARG
1	I	48	SER

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Mol	Chain	Res	Type
1	I	49	GLN
1	I	51	LEU
1	I	52	ARG
1	I	57	GLU
1	I	67	GLU
1	I	71	GLU
1	I	72	SER
1	I	75	GLU
1	I	76	CYS
1	I	80	GLU
1	I	85	VAL
1	I	101	THR
1	I	104	THR
1	I	107	ILE
1	I	109	VAL
1	I	116	THR
1	I	122	CYS
1	I	123	TYR
1	I	124	SER
1	I	125	LEU
1	I	129	VAL
1	I	131	GLU
1	I	132	SER
1	I	139	THR
1	I	142	ILE
1	I	165	SER
1	I	166	ARG
1	I	176	PHE
1	I	177	LEU
1	I	178	ARG
1	I	189	LEU
1	I	190	ARG
1	I	204	ARG
1	I	211	ASP
1	I	213	SER
1	I	219	THR
1	I	230	ARG
1	I	236	SER
1	I	237	ARG
1	I	247	CYS
1	I	250	LEU
1	I	253	TYR

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Mol	Chain	Res	Type
1	I	255	ARG
1	I	262	GLN
1	I	266	GLN
1	I	267	VAL
1	I	271	THR
1	I	279	ILE
1	I	289	VAL
1	I	293	LEU
1	I	296	GLU
1	I	300	LEU
1	I	310	ARG
1	I	312	VAL
1	I	314	GLU
1	I	315	LEU
1	I	323	ILE
1	I	333	ARG
1	I	387	VAL
1	I	395	HIS
1	I	404	ARG
1	I	425	ARG
1	I	433	LEU
1	I	437	SER
1	I	448	ARG
1	I	461	GLU
1	I	473	ARG
1	I	475	ILE
1	I	502	MET
1	I	509	ASP
1	I	515	VAL
1	I	517	LYS
1	I	519	SER
1	I	533	LEU
1	I	535	LEU
1	I	545	SER
1	I	546	LEU
1	I	551	LYS
1	I	554	GLN
1	I	576	ILE
1	I	577	LYS
1	I	580	GLU
1	I	599	ARG
1	I	600	GLN

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Mol	Chain	Res	Type
1	I	603	MET
1	I	630	ARG
1	I	632	SER
1	I	634	GLN
1	I	636	ILE
1	I	637	GLU
1	I	638	VAL
1	I	639	THR
1	I	651	LEU
1	I	661	LYS
1	I	665	SER
1	I	668	VAL
1	I	679	LEU
1	I	689	GLU
1	I	690	SER
1	I	699	ARG
1	I	710	GLU
1	I	714	ILE
1	I	719	GLN
1	I	737	ILE
1	I	740	LEU
1	I	745	MET
1	I	748	CYS
1	I	749	ILE
1	I	750	GLU
1	I	751	LEU
1	I	753	ASN
1	I	768	MET
1	I	772	ASP
1	I	776	LEU
1	I	780	LEU
1	I	781	ARG
1	I	796	SER
1	I	799	THR
1	I	800	ARG
1	I	807	VAL
1	I	822	LEU
1	I	824	GLN
1	I	826	THR
1	I	832	ASP
1	I	836	ILE
1	I	837	THR

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Mol	Chain	Res	Type
1	I	849	LEU
1	I	850	PHE
1	I	854	LYS
1	I	856	TYR
1	I	857	ARG
1	I	858	ILE
1	I	861	SER
1	I	866	ILE
1	I	867	THR
1	I	869	ASP
1	I	874	SER
1	I	881	ARG
1	I	893	GLU
1	I	896	ASN
1	I	917	ARG
1	I	923	SER
1	I	938	ARG
1	I	942	ARG
1	I	943	GLU
1	I	945	ASN
1	I	950	GLN
1	I	956	GLN
1	I	962	TYR
1	I	966	GLN
1	I	968	MET
1	I	973	ARG
1	I	984	LEU
1	I	991	MET
1	I	993	ILE
1	I	1000	SER
1	I	1003	VAL
1	I	1006	GLU
1	I	1013	ARG
1	I	1021	CYS
1	J	3	ILE
1	J	24	LEU
1	J	48	SER
1	J	49	GLN
1	J	51	LEU
1	J	52	ARG
1	J	67	GLU
1	J	71	GLU

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Mol	Chain	Res	Type
1	J	77	ASP
1	J	83	THR
1	J	101	THR
1	J	102	ASN
1	J	108	THR
1	J	117	GLU
1	J	124	SER
1	J	125	LEU
1	J	128	ASN
1	J	129	VAL
1	J	131	GLU
1	J	141	ILE
1	J	165	SER
1	J	166	ARG
1	J	170	GLU
1	J	176	PHE
1	J	177	LEU
1	J	178	ARG
1	J	186	VAL
1	J	190	ARG
1	J	202	MET
1	J	210	ARG
1	J	211	ASP
1	J	219	THR
1	J	220	THR
1	J	221	GLN
1	J	226	HIS
1	J	227	VAL
1	J	247	CYS
1	J	255	ARG
1	J	259	SER
1	J	277	GLU
1	J	279	ILE
1	J	305	ILE
1	J	310	ARG
1	J	313	VAL
1	J	314	GLU
1	J	321	THR
1	J	324	GLU
1	J	333	ARG
1	J	347	LYS
1	J	349	LEU

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Mol	Chain	Res	Type
1	J	351	ILE
1	J	355	ASN
1	J	373	VAL
1	J	380	LYS
1	J	397	LEU
1	J	404	ARG
1	J	420	MET
1	J	424	ASN
1	J	425	ARG
1	J	431	ARG
1	J	433	LEU
1	J	438	GLU
1	J	446	ARG
1	J	448	ARG
1	J	461	GLU
1	J	467	ASN
1	J	473	ARG
1	J	515	VAL
1	J	519	SER
1	J	522	LYS
1	J	533	LEU
1	J	545	SER
1	J	546	LEU
1	J	571	VAL
1	J	576	ILE
1	J	580	GLU
1	J	599	ARG
1	J	600	GLN
1	J	629	PHE
1	J	635	THR
1	J	636	ILE
1	J	638	VAL
1	J	645	ARG
1	J	651	LEU
1	J	658	LEU
1	J	661	LYS
1	J	665	SER
1	J	670	LEU
1	J	672	VAL
1	J	675	GLN
1	J	680	ILE
1	J	681	GLU

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Mol	Chain	Res	Type
1	J	689	GLU
1	J	690	SER
1	J	694	LEU
1	J	698	VAL
1	J	699	ARG
1	J	701	VAL
1	J	724	GLU
1	J	728	VAL
1	J	729	THR
1	J	741	THR
1	J	745	MET
1	J	748	CYS
1	J	749	ILE
1	J	750	GLU
1	J	762	SER
1	J	772	ASP
1	J	773	LYS
1	J	776	LEU
1	J	781	ARG
1	J	796	SER
1	J	823	LEU
1	J	832	ASP
1	J	836	ILE
1	J	837	THR
1	J	838	THR
1	J	850	PHE
1	J	851	ILE
1	J	854	LYS
1	J	855	THR
1	J	857	ARG
1	J	858	ILE
1	J	861	SER
1	J	866	ILE
1	J	867	THR
1	J	872	VAL
1	J	881	ARG
1	J	885	ASN
1	J	925	MET
1	J	934	GLU
1	J	938	ARG
1	J	941	THR
1	J	950	GLN

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Mol	Chain	Res	Type
1	J	951	TRP
1	J	956	GLN
1	J	961	ARG
1	J	965	GLN
1	J	986	ILE
1	J	991	MET
1	J	997	ASP
1	J	1006	GLU
1	J	1018	LEU
1	J	1023	LYS
1	K	3	ILE
1	K	6	SER
1	K	11	LEU
1	K	13	ARG
1	K	14	ARG
1	K	21	VAL
1	K	24	LEU
1	K	26	ARG
1	K	37	ARG
1	K	39	SER
1	K	48	SER
1	K	49	GLN
1	K	51	LEU
1	K	53	SER
1	K	67	GLU
1	K	72	SER
1	K	80	GLU
1	K	86	VAL
1	K	90	TRP
1	K	101	THR
1	K	102	ASN
1	K	104	THR
1	K	107	ILE
1	K	108	THR
1	K	114	VAL
1	K	123	TYR
1	K	124	SER
1	K	126	THR
1	K	129	VAL
1	K	131	GLU
1	K	135	GLN
1	K	136	GLU

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Mol	Chain	Res	Type
1	K	138	GLN
1	K	139	THR
1	K	141	ILE
1	K	142	ILE
1	K	148	SER
1	K	165	SER
1	K	166	ARG
1	K	176	PHE
1	K	187	MET
1	K	188	VAL
1	K	189	LEU
1	K	190	ARG
1	K	211	ASP
1	K	213	SER
1	K	219	THR
1	K	222	ILE
1	K	227	VAL
1	K	232	ASN
1	K	236	SER
1	K	241	GLU
1	K	246	MET
1	K	247	CYS
1	K	250	LEU
1	K	252	ASP
1	K	255	ARG
1	K	259	SER
1	K	265	THR
1	K	267	VAL
1	K	277	GLU
1	K	280	ASP
1	K	287	ASP
1	K	289	VAL
1	K	292	ARG
1	K	293	LEU
1	K	310	ARG
1	K	312	VAL
1	K	313	VAL
1	K	314	GLU
1	K	324	GLU
1	K	333	ARG
1	K	336	ARG
1	K	343	LEU

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Mol	Chain	Res	Type
1	K	347	LYS
1	K	373	VAL
1	K	379	MET
1	K	387	VAL
1	K	397	LEU
1	K	418	HIS
1	K	420	MET
1	K	424	ASN
1	K	433	LEU
1	K	448	ARG
1	K	454	ILE
1	K	455	ILE
1	K	461	GLU
1	K	473	ARG
1	K	475	ILE
1	K	481	SER
1	K	484	VAL
1	K	517	LYS
1	K	533	LEU
1	K	538	TYR
1	K	545	SER
1	K	546	LEU
1	K	551	LYS
1	K	554	GLN
1	K	571	VAL
1	K	576	ILE
1	K	580	GLU
1	K	581	ASN
1	K	594	ASP
1	K	600	GLN
1	K	604	ASN
1	K	607	VAL
1	K	630	ARG
1	K	645	ARG
1	K	651	LEU
1	K	658	LEU
1	K	663	LEU
1	K	668	VAL
1	K	672	VAL
1	K	675	GLN
1	K	679	LEU
1	K	680	ILE

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Mol	Chain	Res	Type
1	K	681	GLU
1	K	684	GLU
1	K	689	GLU
1	K	690	SER
1	K	694	LEU
1	K	699	ARG
1	K	704	ASN
1	K	719	GLN
1	K	720	TRP
1	K	726	LEU
1	K	728	VAL
1	K	737	ILE
1	K	744	GLU
1	K	749	ILE
1	K	750	GLU
1	K	751	LEU
1	K	768	MET
1	K	772	ASP
1	K	775	GLN
1	K	780	LEU
1	K	781	ARG
1	K	799	THR
1	K	800	ARG
1	K	801	ILE
1	K	804	ASN
1	K	817	GLN
1	K	819	GLU
1	K	822	LEU
1	K	824	GLN
1	K	832	ASP
1	K	836	ILE
1	K	843	GLN
1	K	848	THR
1	K	850	PHE
1	K	851	ILE
1	K	854	LYS
1	K	856	TYR
1	K	857	ARG
1	K	858	ILE
1	K	861	SER
1	K	866	ILE
1	K	867	THR

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Mol	Chain	Res	Type
1	K	869	ASP
1	K	874	SER
1	K	878	HIS
1	K	884	LEU
1	K	885	ASN
1	K	900	LEU
1	K	916	ASP
1	K	934	GLU
1	K	937	LEU
1	K	938	ARG
1	K	956	GLN
1	K	961	ARG
1	K	970	THR
1	K	991	MET
1	K	1006	GLU
1	K	1017	GLN
1	K	1018	LEU
1	K	1019	VAL
1	K	1021	CYS
1	L	3	ILE
1	L	6	SER
1	L	9	VAL
1	L	10	VAL
1	L	11	LEU
1	L	13	ARG
1	L	14	ARG
1	L	21	VAL
1	L	24	LEU
1	L	25	ASN
1	L	38	ASN
1	L	39	SER
1	L	44	THR
1	L	49	GLN
1	L	52	ARG
1	L	59	ARG
1	L	62	TRP
1	L	67	GLU
1	L	71	GLU
1	L	77	ASP
1	L	78	LEU
1	L	80	GLU
1	L	90	TRP

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Mol	Chain	Res	Type
1	L	101	THR
1	L	107	ILE
1	L	108	THR
1	L	109	VAL
1	L	114	VAL
1	L	116	THR
1	L	122	CYS
1	L	123	TYR
1	L	124	SER
1	L	125	LEU
1	L	126	THR
1	L	128	ASN
1	L	129	VAL
1	L	131	GLU
1	L	134	LEU
1	L	136	GLU
1	L	138	GLN
1	L	139	THR
1	L	141	ILE
1	L	152	LEU
1	L	165	SER
1	L	166	ARG
1	L	177	LEU
1	L	184	LEU
1	L	186	VAL
1	L	188	VAL
1	L	190	ARG
1	L	192	SER
1	L	202	MET
1	L	211	ASP
1	L	213	SER
1	L	217	LYS
1	L	219	THR
1	L	220	THR
1	L	221	GLN
1	L	223	SER
1	L	227	VAL
1	L	230	ARG
1	L	232	ASN
1	L	239	VAL
1	L	240	LEU
1	L	241	GLU

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Mol	Chain	Res	Type
1	L	246	MET
1	L	247	CYS
1	L	249	GLU
1	L	255	ARG
1	L	259	SER
1	L	264	GLU
1	L	277	GLU
1	L	278	ILE
1	L	279	ILE
1	L	282	ARG
1	L	302	SER
1	L	305	ILE
1	L	333	ARG
1	L	342	LEU
1	L	343	LEU
1	L	344	LEU
1	L	345	ASN
1	L	349	LEU
1	L	369	GLU
1	L	372	MET
1	L	378	LEU
1	L	385	ASN
1	L	387	VAL
1	L	424	ASN
1	L	426	LEU
1	L	433	LEU
1	L	448	ARG
1	L	461	GLU
1	L	467	ASN
1	L	473	ARG
1	L	475	ILE
1	L	482	ARG
1	L	499	ILE
1	L	502	MET
1	L	515	VAL
1	L	522	LYS
1	L	529	GLU
1	L	533	LEU
1	L	542	MET
1	L	546	LEU
1	L	551	LYS
1	L	567	VAL

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Mol	Chain	Res	Type
1	L	571	VAL
1	L	573	GLN
1	L	576	ILE
1	L	580	GLU
1	L	583	ASN
1	L	594	ASP
1	L	600	GLN
1	L	603	MET
1	L	604	ASN
1	L	629	PHE
1	L	630	ARG
1	L	632	SER
1	L	635	THR
1	L	636	ILE
1	L	638	VAL
1	L	655	MET
1	L	658	LEU
1	L	661	LYS
1	L	672	VAL
1	L	689	GLU
1	L	699	ARG
1	L	710	GLU
1	L	730	LEU
1	L	737	ILE
1	L	741	THR
1	L	743	SER
1	L	745	MET
1	L	751	LEU
1	L	753	ASN
1	L	760	ARG
1	L	768	MET
1	L	770	ILE
1	L	772	ASP
1	L	774	LYS
1	L	777	LEU
1	L	780	LEU
1	L	781	ARG
1	L	789	LEU
1	L	796	SER
1	L	799	THR
1	L	801	ILE
1	L	808	GLU

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Mol	Chain	Res	Type
1	L	817	GLN
1	L	819	GLU
1	L	823	LEU
1	L	824	GLN
1	L	829	THR
1	L	830	LEU
1	L	832	ASP
1	L	840	HIS
1	L	843	GLN
1	L	847	LYS
1	L	849	LEU
1	L	850	PHE
1	L	854	LYS
1	L	856	TYR
1	L	858	ILE
1	L	866	ILE
1	L	867	THR
1	L	868	VAL
1	L	870	VAL
1	L	896	ASN
1	L	921	PRO
1	L	923	SER
1	L	925	MET
1	L	927	THR
1	L	931	PHE
1	L	934	GLU
1	L	937	LEU
1	L	938	ARG
1	L	941	THR
1	L	950	GLN
1	L	951	TRP
1	L	956	GLN
1	L	959	ILE
1	L	970	THR
1	L	973	ARG
1	L	974	HIS
1	L	980	GLU
1	L	984	LEU
1	L	991	MET
1	L	997	ASP
1	L	1006	GLU
1	L	1017	GLN

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Mol	Chain	Res	Type
1	L	1018	LEU
1	M	3	ILE
1	M	4	THR
1	M	6	SER
1	M	7	LEU
1	M	10	VAL
1	M	11	LEU
1	M	14	ARG
1	M	17	GLU
1	M	22	THR
1	M	23	GLN
1	M	25	ASN
1	M	26	ARG
1	M	39	SER
1	M	43	ARG
1	M	49	GLN
1	M	51	LEU
1	M	52	ARG
1	M	54	LEU
1	M	67	GLU
1	M	71	GLU
1	M	75	GLU
1	M	76	CYS
1	M	77	ASP
1	M	78	LEU
1	M	80	GLU
1	M	86	VAL
1	M	90	TRP
1	M	101	THR
1	M	102	ASN
1	M	104	THR
1	M	107	ILE
1	M	109	VAL
1	M	114	VAL
1	M	116	THR
1	M	124	SER
1	M	126	THR
1	M	128	ASN
1	M	132	SER
1	M	136	GLU
1	M	138	GLN
1	M	141	ILE

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Mol	Chain	Res	Type
1	M	148	SER
1	M	165	SER
1	M	166	ARG
1	M	176	PHE
1	M	181	GLU
1	M	189	LEU
1	M	190	ARG
1	M	193	ASP
1	M	197	LEU
1	M	202	MET
1	M	211	ASP
1	M	212	VAL
1	M	213	SER
1	M	217	LYS
1	M	219	THR
1	M	221	GLN
1	M	230	ARG
1	M	232	ASN
1	M	236	SER
1	M	237	ARG
1	M	245	GLN
1	M	246	MET
1	M	247	CYS
1	M	250	LEU
1	M	255	ARG
1	M	259	SER
1	M	260	LEU
1	M	266	GLN
1	M	267	VAL
1	M	291	LEU
1	M	293	LEU
1	M	295	VAL
1	M	296	GLU
1	M	300	LEU
1	M	305	ILE
1	M	308	LEU
1	M	310	ARG
1	M	312	VAL
1	M	314	GLU
1	M	315	LEU
1	M	316	HIS
1	M	321	THR

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Mol	Chain	Res	Type
1	M	322	LEU
1	M	323	ILE
1	M	333	ARG
1	M	338	GLU
1	M	350	LEU
1	M	351	ILE
1	M	355	ASN
1	M	356	ARG
1	M	369	GLU
1	M	377	LEU
1	M	381	GLN
1	M	387	VAL
1	M	391	HIS
1	M	395	HIS
1	M	397	LEU
1	M	407	LEU
1	M	411	ASP
1	M	417	THR
1	M	424	ASN
1	M	426	LEU
1	M	428	ASP
1	M	433	LEU
1	M	436	MET
1	M	437	SER
1	M	439	ARG
1	M	441	THR
1	M	447	ASP
1	M	448	ARG
1	M	455	ILE
1	M	461	GLU
1	M	473	ARG
1	M	476	LYS
1	M	477	SER
1	M	481	SER
1	M	485	GLN
1	M	515	VAL
1	M	523	TRP
1	M	524	LEU
1	M	525	SER
1	M	530	THR
1	M	533	LEU
1	M	545	SER

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Mol	Chain	Res	Type
1	M	546	LEU
1	M	554	GLN
1	M	567	VAL
1	M	571	VAL
1	M	575	LEU
1	M	576	ILE
1	M	581	ASN
1	M	583	ASN
1	M	594	ASP
1	M	600	GLN
1	M	607	VAL
1	M	623	GLN
1	M	629	PHE
1	M	632	SER
1	M	634	GLN
1	M	636	ILE
1	M	638	VAL
1	M	645	ARG
1	M	651	LEU
1	M	655	MET
1	M	656	VAL
1	M	658	LEU
1	M	661	LYS
1	M	663	LEU
1	M	667	GLU
1	M	672	VAL
1	M	679	LEU
1	M	680	ILE
1	M	681	GLU
1	M	690	SER
1	M	699	ARG
1	M	701	VAL
1	M	704	ASN
1	M	710	GLU
1	M	714	ILE
1	M	719	GLN
1	M	727	SER
1	M	743	SER
1	M	745	MET
1	M	748	CYS
1	M	749	ILE
1	M	754	LYS

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Mol	Chain	Res	Type
1	M	755	ARG
1	M	767	GLN
1	M	768	MET
1	M	777	LEU
1	M	778	THR
1	M	781	ARG
1	M	789	LEU
1	M	791	ASN
1	M	793	ILE
1	M	796	SER
1	M	800	ARG
1	M	801	ILE
1	M	807	VAL
1	M	817	GLN
1	M	819	GLU
1	M	822	LEU
1	M	823	LEU
1	M	824	GLN
1	M	828	ASP
1	M	832	ASP
1	M	836	ILE
1	M	837	THR
1	M	840	HIS
1	M	845	GLN
1	M	848	THR
1	M	849	LEU
1	M	854	LYS
1	M	857	ARG
1	M	858	ILE
1	M	867	THR
1	M	872	VAL
1	M	874	SER
1	M	881	ARG
1	M	884	LEU
1	M	891	VAL
1	M	893	GLU
1	M	894	ARG
1	M	916	ASP
1	M	917	ARG
1	M	923	SER
1	M	925	MET
1	M	930	VAL

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Mol	Chain	Res	Type
1	M	938	ARG
1	M	941	THR
1	M	958	ASN
1	M	966	GLN
1	M	968	MET
1	M	980	GLU
1	M	986	ILE
1	M	991	MET
1	M	999	TRP
1	M	1006	GLU
1	M	1017	GLN
1	N	3	ILE
1	N	6	SER
1	N	7	LEU
1	N	13	ARG
1	N	21	VAL
1	N	24	LEU
1	N	26	ARG
1	N	48	SER
1	N	49	GLN
1	N	51	LEU
1	N	52	ARG
1	N	67	GLU
1	N	71	GLU
1	N	72	SER
1	N	77	ASP
1	N	80	GLU
1	N	82	ASP
1	N	90	TRP
1	N	101	THR
1	N	102	ASN
1	N	114	VAL
1	N	125	LEU
1	N	129	VAL
1	N	131	GLU
1	N	132	SER
1	N	134	LEU
1	N	140	ARG
1	N	148	SER
1	N	165	SER
1	N	166	ARG
1	N	167	LEU

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Mol	Chain	Res	Type
1	N	176	PHE
1	N	177	LEU
1	N	186	VAL
1	N	189	LEU
1	N	190	ARG
1	N	197	LEU
1	N	202	MET
1	N	204	ARG
1	N	208	ILE
1	N	210	ARG
1	N	213	SER
1	N	214	LEU
1	N	217	LYS
1	N	220	THR
1	N	221	GLN
1	N	226	HIS
1	N	230	ARG
1	N	232	ASN
1	N	237	ARG
1	N	246	MET
1	N	247	CYS
1	N	249	GLU
1	N	250	LEU
1	N	255	ARG
1	N	269	SER
1	N	278	ILE
1	N	279	ILE
1	N	282	ARG
1	N	289	VAL
1	N	293	LEU
1	N	301	TRP
1	N	305	ILE
1	N	310	ARG
1	N	312	VAL
1	N	314	GLU
1	N	321	THR
1	N	333	ARG
1	N	336	ARG
1	N	337	ILE
1	N	355	ASN
1	N	358	GLU
1	N	395	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	N	404	ARG
1	N	424	ASN
1	N	433	LEU
1	N	437	SER
1	N	439	ARG
1	N	442	ARG
1	N	447	ASP
1	N	448	ARG
1	N	461	GLU
1	N	473	ARG
1	N	475	ILE
1	N	482	ARG
1	N	533	LEU
1	N	545	SER
1	N	546	LEU
1	N	551	LYS
1	N	569	ASP
1	N	591	ASP
1	N	594	ASP
1	N	595	THR
1	N	599	ARG
1	N	600	GLN
1	N	604	ASN
1	N	612	THR
1	N	623	GLN
1	N	630	ARG
1	N	631	LEU
1	N	632	SER
1	N	634	GLN
1	N	635	THR
1	N	636	ILE
1	N	639	THR
1	N	651	LEU
1	N	655	MET
1	N	658	LEU
1	N	661	LYS
1	N	663	LEU
1	N	670	LEU
1	N	672	VAL
1	N	679	LEU
1	N	680	ILE
1	N	684	GLU

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Mol	Chain	Res	Type
1	N	687	GLN
1	N	689	GLU
1	N	690	SER
1	N	699	ARG
1	N	701	VAL
1	N	704	ASN
1	N	709	SER
1	N	714	ILE
1	N	719	GLN
1	N	727	SER
1	N	728	VAL
1	N	730	LEU
1	N	734	SER
1	N	737	ILE
1	N	741	THR
1	N	743	SER
1	N	745	MET
1	N	748	CYS
1	N	749	ILE
1	N	761	GLN
1	N	765	LEU
1	N	766	SER
1	N	768	MET
1	N	772	ASP
1	N	775	GLN
1	N	778	THR
1	N	781	ARG
1	N	796	SER
1	N	799	THR
1	N	800	ARG
1	N	801	ILE
1	N	817	GLN
1	N	822	LEU
1	N	826	THR
1	N	832	ASP
1	N	850	PHE
1	N	861	SER
1	N	867	THR
1	N	868	VAL
1	N	881	ARG
1	N	885	ASN
1	N	898	LEU

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Mol	Chain	Res	Type
1	N	903	GLN
1	N	916	ASP
1	N	917	ARG
1	N	920	LEU
1	N	925	MET
1	N	930	VAL
1	N	931	PHE
1	N	937	LEU
1	N	938	ARG
1	N	950	GLN
1	N	952	ARG
1	N	956	GLN
1	N	964	GLN
1	N	969	GLU
1	N	980	GLU
1	N	984	LEU
1	N	986	ILE
1	N	993	ILE
1	N	1002	SER
1	N	1006	GLU
1	O	3	ILE
1	O	7	LEU
1	O	13	ARG
1	O	21	VAL
1	O	22	THR
1	O	24	LEU
1	O	39	SER
1	O	48	SER
1	O	49	GLN
1	O	50	GLN
1	O	51	LEU
1	O	52	ARG
1	O	67	GLU
1	O	71	GLU
1	O	72	SER
1	O	76	CYS
1	O	77	ASP
1	O	78	LEU
1	O	80	GLU
1	O	86	VAL
1	O	90	TRP
1	O	101	THR

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Mol	Chain	Res	Type
1	O	107	ILE
1	O	114	VAL
1	O	123	TYR
1	O	124	SER
1	O	128	ASN
1	O	129	VAL
1	O	131	GLU
1	O	132	SER
1	O	134	LEU
1	O	139	THR
1	O	141	ILE
1	O	165	SER
1	O	166	ARG
1	O	186	VAL
1	O	188	VAL
1	O	190	ARG
1	O	202	MET
1	O	213	SER
1	O	219	THR
1	O	222	ILE
1	O	232	ASN
1	O	236	SER
1	O	237	ARG
1	O	243	GLU
1	O	246	MET
1	O	247	CYS
1	O	249	GLU
1	O	250	LEU
1	O	259	SER
1	O	265	THR
1	O	269	SER
1	O	279	ILE
1	O	289	VAL
1	O	314	GLU
1	O	322	LEU
1	O	323	ILE
1	O	324	GLU
1	O	329	ASP
1	O	333	ARG
1	O	336	ARG
1	O	343	LEU
1	O	362	LEU

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Mol	Chain	Res	Type
1	O	369	GLU
1	O	373	VAL
1	O	376	ILE
1	O	385	ASN
1	O	420	MET
1	O	423	MET
1	O	425	ARG
1	O	429	ASP
1	O	437	SER
1	O	455	ILE
1	O	473	ARG
1	O	476	LYS
1	O	477	SER
1	O	508	GLU
1	O	515	VAL
1	O	525	SER
1	O	529	GLU
1	O	533	LEU
1	O	535	LEU
1	O	545	SER
1	O	546	LEU
1	O	554	GLN
1	O	558	GLN
1	O	571	VAL
1	O	588	TYR
1	O	594	ASP
1	O	599	ARG
1	O	600	GLN
1	O	603	MET
1	O	632	SER
1	O	634	GLN
1	O	635	THR
1	O	639	THR
1	O	651	LEU
1	O	661	LYS
1	O	663	LEU
1	O	667	GLU
1	O	672	VAL
1	O	675	GLN
1	O	679	LEU
1	O	680	ILE
1	O	682	LEU

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Mol	Chain	Res	Type
1	O	685	LEU
1	O	687	GLN
1	O	689	GLU
1	O	690	SER
1	O	699	ARG
1	O	701	VAL
1	O	704	ASN
1	O	719	GLN
1	O	722	LEU
1	O	728	VAL
1	O	734	SER
1	O	737	ILE
1	O	743	SER
1	O	748	CYS
1	O	751	LEU
1	O	754	LYS
1	O	765	LEU
1	O	766	SER
1	O	768	MET
1	O	773	LYS
1	O	774	LYS
1	O	776	LEU
1	O	778	THR
1	O	781	ARG
1	O	796	SER
1	O	799	THR
1	O	801	ILE
1	O	807	VAL
1	O	819	GLU
1	O	822	LEU
1	O	824	GLN
1	O	828	ASP
1	O	829	THR
1	O	830	LEU
1	O	832	ASP
1	O	837	THR
1	O	843	GLN
1	O	850	PHE
1	O	854	LYS
1	O	857	ARG
1	O	858	ILE
1	O	866	ILE

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Mol	Chain	Res	Type
1	O	868	VAL
1	O	869	ASP
1	O	872	VAL
1	O	874	SER
1	O	881	ARG
1	O	893	GLU
1	O	903	GLN
1	O	938	ARG
1	O	943	GLU
1	O	956	GLN
1	O	961	ARG
1	O	967	LEU
1	O	968	MET
1	O	970	THR
1	O	986	ILE
1	O	993	ILE
1	O	1006	GLU
1	O	1008	GLN
1	O	1017	GLN
1	O	1018	LEU
1	O	1019	VAL
1	P	3	ILE
1	P	6	SER
1	P	7	LEU
1	P	9	VAL
1	P	11	LEU
1	P	21	VAL
1	P	22	THR
1	P	24	LEU
1	P	27	LEU
1	P	35	SER
1	P	48	SER
1	P	49	GLN
1	P	51	LEU
1	P	52	ARG
1	P	54	LEU
1	P	67	GLU
1	P	71	GLU
1	P	72	SER
1	P	77	ASP
1	P	80	GLU
1	P	86	VAL

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Mol	Chain	Res	Type
1	P	90	TRP
1	P	91	GLN
1	P	92	MET
1	P	99	ILE
1	P	101	THR
1	P	103	VAL
1	P	107	ILE
1	P	108	THR
1	P	128	ASN
1	P	129	VAL
1	P	131	GLU
1	P	134	LEU
1	P	135	GLN
1	P	136	GLU
1	P	138	GLN
1	P	139	THR
1	P	141	ILE
1	P	142	ILE
1	P	152	LEU
1	P	157	ARG
1	P	165	SER
1	P	166	ARG
1	P	170	GLU
1	P	174	SER
1	P	176	PHE
1	P	190	ARG
1	P	192	SER
1	P	204	ARG
1	P	206	SER
1	P	211	ASP
1	P	212	VAL
1	P	213	SER
1	P	214	LEU
1	P	221	GLN
1	P	225	PHE
1	P	227	VAL
1	P	229	THR
1	P	231	PHE
1	P	236	SER
1	P	237	ARG
1	P	243	GLU
1	P	244	VAL

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Mol	Chain	Res	Type
1	P	246	MET
1	P	247	CYS
1	P	250	LEU
1	P	262	GLN
1	P	265	THR
1	P	267	VAL
1	P	271	THR
1	P	278	ILE
1	P	281	GLU
1	P	282	ARG
1	P	287	ASP
1	P	289	VAL
1	P	293	LEU
1	P	296	GLU
1	P	297	ASN
1	P	302	SER
1	P	310	ARG
1	P	312	VAL
1	P	315	LEU
1	P	321	THR
1	P	330	VAL
1	P	333	ARG
1	P	343	LEU
1	P	347	LYS
1	P	350	LEU
1	P	356	ARG
1	P	367	MET
1	P	373	VAL
1	P	374	GLN
1	P	380	LYS
1	P	385	ASN
1	P	387	VAL
1	P	390	SER
1	P	395	HIS
1	P	397	LEU
1	P	407	LEU
1	P	415	ILE
1	P	418	HIS
1	P	420	MET
1	P	423	MET
1	P	427	THR
1	P	433	LEU

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Mol	Chain	Res	Type
1	P	436	MET
1	P	445	GLN
1	P	448	ARG
1	P	449	ASN
1	P	454	ILE
1	P	455	ILE
1	P	458	LEU
1	P	461	GLU
1	P	467	ASN
1	P	473	ARG
1	P	475	ILE
1	P	476	LYS
1	P	477	SER
1	P	494	THR
1	P	517	LYS
1	P	519	SER
1	P	521	LYS
1	P	525	SER
1	P	533	LEU
1	P	545	SER
1	P	551	LYS
1	P	554	GLN
1	P	567	VAL
1	P	575	LEU
1	P	586	SER
1	P	594	ASP
1	P	600	GLN
1	P	603	MET
1	P	606	LEU
1	P	611	ARG
1	P	612	THR
1	P	618	THR
1	P	629	PHE
1	P	630	ARG
1	P	634	GLN
1	P	635	THR
1	P	639	THR
1	P	645	ARG
1	P	649	ASN
1	P	650	GLU
1	P	651	LEU
1	P	658	LEU

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Mol	Chain	Res	Type
1	P	670	LEU
1	P	672	VAL
1	P	679	LEU
1	P	687	GLN
1	P	690	SER
1	P	696	LEU
1	P	699	ARG
1	P	701	VAL
1	P	704	ASN
1	P	713	HIS
1	P	726	LEU
1	P	728	VAL
1	P	730	LEU
1	P	737	ILE
1	P	744	GLU
1	P	748	CYS
1	P	750	GLU
1	P	751	LEU
1	P	754	LYS
1	P	755	ARG
1	P	761	GLN
1	P	765	LEU
1	P	772	ASP
1	P	773	LYS
1	P	776	LEU
1	P	777	LEU
1	P	781	ARG
1	P	793	ILE
1	P	799	THR
1	P	801	ILE
1	P	804	ASN
1	P	807	VAL
1	P	817	GLN
1	P	819	GLU
1	P	829	THR
1	P	830	LEU
1	P	834	VAL
1	P	835	LEU
1	P	838	THR
1	P	843	GLN
1	P	848	THR
1	P	849	LEU

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Mol	Chain	Res	Type
1	P	850	PHE
1	P	854	LYS
1	P	856	TYR
1	P	857	ARG
1	P	858	ILE
1	P	866	ILE
1	P	867	THR
1	P	868	VAL
1	P	869	ASP
1	P	874	SER
1	P	876	THR
1	P	878	HIS
1	P	881	ARG
1	P	890	GLN
1	P	893	GLU
1	P	903	GLN
1	P	905	ASN
1	P	910	LEU
1	P	911	THR
1	P	920	LEU
1	P	925	MET
1	P	931	PHE
1	P	941	THR
1	P	950	GLN
1	P	951	TRP
1	P	956	GLN
1	P	961	ARG
1	P	966	GLN
1	P	968	MET
1	P	970	THR
1	P	973	ARG
1	P	985	ASN
1	P	986	ILE
1	P	991	MET
1	P	993	ILE
1	P	999	TRP
1	P	1006	GLU
1	P	1017	GLN
1	P	1018	LEU
1	P	1021	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (430) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	89	ASN
1	A	93	HIS
1	A	102	ASN
1	A	128	ASN
1	A	135	GLN
1	A	147	ASN
1	A	226	HIS
1	A	262	GLN
1	A	357	HIS
1	A	359	HIS
1	A	363	HIS
1	A	382	ASN
1	A	394	ASN
1	A	414	ASN
1	A	485	GLN
1	A	510	GLN
1	A	597	ASN
1	A	604	ASN
1	A	622	HIS
1	A	628	GLN
1	A	702	GLN
1	A	704	ASN
1	A	757	GLN
1	A	791	ASN
1	A	817	GLN
1	A	843	GLN
1	A	949	HIS
1	A	977	HIS
1	A	990	HIS
1	B	25	ASN
1	B	38	ASN
1	B	50	GLN
1	B	93	HIS
1	B	102	ASN
1	B	128	ASN
1	B	216	HIS
1	B	221	GLN
1	B	262	GLN
1	B	316	HIS
1	B	357	HIS
1	B	385	ASN
1	B	414	ASN

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Mol	Chain	Res	Type
1	B	424	ASN
1	B	597	ASN
1	B	622	HIS
1	B	634	GLN
1	B	675	GLN
1	B	704	ASN
1	B	713	HIS
1	B	739	HIS
1	B	775	GLN
1	B	844	HIS
1	B	878	HIS
1	B	949	HIS
1	B	977	HIS
1	B	990	HIS
1	B	1008	GLN
1	B	1017	GLN
1	C	50	GLN
1	C	91	GLN
1	C	93	HIS
1	C	102	ASN
1	C	147	ASN
1	C	163	GLN
1	C	266	GLN
1	C	316	HIS
1	C	357	HIS
1	C	363	HIS
1	C	394	ASN
1	C	424	ASN
1	C	467	ASN
1	C	597	ASN
1	C	600	GLN
1	C	622	HIS
1	C	675	GLN
1	C	704	ASN
1	C	713	HIS
1	C	817	GLN
1	C	824	GLN
1	C	844	HIS
1	C	887	GLN
1	C	949	HIS
1	C	950	GLN
1	C	977	HIS

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Mol	Chain	Res	Type
1	C	990	HIS
1	D	38	ASN
1	D	50	GLN
1	D	89	ASN
1	D	93	HIS
1	D	102	ASN
1	D	128	ASN
1	D	226	HIS
1	D	262	GLN
1	D	316	HIS
1	D	357	HIS
1	D	363	HIS
1	D	445	GLN
1	D	583	ASN
1	D	597	ASN
1	D	604	ASN
1	D	622	HIS
1	D	653	HIS
1	D	702	GLN
1	D	713	HIS
1	D	761	GLN
1	D	775	GLN
1	D	783	GLN
1	D	824	GLN
1	D	844	HIS
1	D	890	GLN
1	D	949	HIS
1	D	977	HIS
1	D	985	ASN
1	E	102	ASN
1	E	128	ASN
1	E	226	HIS
1	E	266	GLN
1	E	339	ASN
1	E	357	HIS
1	E	385	ASN
1	E	394	ASN
1	E	414	ASN
1	E	424	ASN
1	E	445	GLN
1	E	583	ASN
1	E	597	ASN

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Mol	Chain	Res	Type
1	E	614	HIS
1	E	622	HIS
1	E	702	GLN
1	E	761	GLN
1	E	817	GLN
1	E	844	HIS
1	E	949	HIS
1	E	977	HIS
1	E	990	HIS
1	F	38	ASN
1	F	50	GLN
1	F	93	HIS
1	F	102	ASN
1	F	147	ASN
1	F	163	GLN
1	F	221	GLN
1	F	226	HIS
1	F	262	GLN
1	F	266	GLN
1	F	316	HIS
1	F	357	HIS
1	F	394	ASN
1	F	424	ASN
1	F	445	GLN
1	F	460	ASN
1	F	597	ASN
1	F	614	HIS
1	F	622	HIS
1	F	624	GLN
1	F	704	ASN
1	F	713	HIS
1	F	843	GLN
1	F	844	HIS
1	F	887	GLN
1	F	949	HIS
1	F	977	HIS
1	F	990	HIS
1	F	1017	GLN
1	G	93	HIS
1	G	102	ASN
1	G	128	ASN
1	G	135	GLN

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Mol	Chain	Res	Type
1	G	226	HIS
1	G	262	GLN
1	G	316	HIS
1	G	357	HIS
1	G	359	HIS
1	G	394	ASN
1	G	424	ASN
1	G	460	ASN
1	G	467	ASN
1	G	510	GLN
1	G	581	ASN
1	G	597	ASN
1	G	623	GLN
1	G	624	GLN
1	G	628	GLN
1	G	704	ASN
1	G	713	HIS
1	G	739	HIS
1	G	817	GLN
1	G	949	HIS
1	G	977	HIS
1	G	990	HIS
1	H	93	HIS
1	H	102	ASN
1	H	110	ASN
1	H	128	ASN
1	H	221	GLN
1	H	226	HIS
1	H	262	GLN
1	H	357	HIS
1	H	363	HIS
1	H	394	ASN
1	H	418	HIS
1	H	424	ASN
1	H	460	ASN
1	H	467	ASN
1	H	554	GLN
1	H	597	ASN
1	H	614	HIS
1	H	622	HIS
1	H	624	GLN
1	H	628	GLN

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Mol	Chain	Res	Type
1	H	634	GLN
1	H	702	GLN
1	H	739	HIS
1	H	775	GLN
1	H	783	GLN
1	H	844	HIS
1	H	949	HIS
1	H	985	ASN
1	H	1022	GLN
1	I	38	ASN
1	I	89	ASN
1	I	93	HIS
1	I	102	ASN
1	I	128	ASN
1	I	147	ASN
1	I	226	HIS
1	I	266	GLN
1	I	297	ASN
1	I	357	HIS
1	I	363	HIS
1	I	383	ASN
1	I	394	ASN
1	I	485	GLN
1	I	510	GLN
1	I	597	ASN
1	I	622	HIS
1	I	623	GLN
1	I	624	GLN
1	I	702	GLN
1	I	713	HIS
1	I	817	GLN
1	I	824	GLN
1	I	949	HIS
1	I	950	GLN
1	I	1017	GLN
1	J	50	GLN
1	J	93	HIS
1	J	102	ASN
1	J	221	GLN
1	J	226	HIS
1	J	262	GLN
1	J	355	ASN

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Mol	Chain	Res	Type
1	J	357	HIS
1	J	583	ASN
1	J	597	ASN
1	J	624	GLN
1	J	702	GLN
1	J	704	ASN
1	J	977	HIS
1	J	990	HIS
1	K	38	ASN
1	K	50	GLN
1	K	102	ASN
1	K	128	ASN
1	K	147	ASN
1	K	226	HIS
1	K	262	GLN
1	K	316	HIS
1	K	357	HIS
1	K	460	ASN
1	K	485	GLN
1	K	581	ASN
1	K	597	ASN
1	K	614	HIS
1	K	675	GLN
1	K	775	GLN
1	K	783	GLN
1	K	843	GLN
1	K	885	ASN
1	K	949	HIS
1	K	974	HIS
1	K	985	ASN
1	K	990	HIS
1	L	89	ASN
1	L	93	HIS
1	L	102	ASN
1	L	128	ASN
1	L	226	HIS
1	L	262	GLN
1	L	357	HIS
1	L	359	HIS
1	L	363	HIS
1	L	385	ASN
1	L	394	ASN

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Mol	Chain	Res	Type
1	L	414	ASN
1	L	424	ASN
1	L	445	GLN
1	L	460	ASN
1	L	583	ASN
1	L	624	GLN
1	L	761	GLN
1	L	783	GLN
1	L	815	HIS
1	L	844	HIS
1	L	949	HIS
1	L	977	HIS
1	L	990	HIS
1	M	23	GLN
1	M	38	ASN
1	M	50	GLN
1	M	91	GLN
1	M	102	ASN
1	M	128	ASN
1	M	135	GLN
1	M	147	ASN
1	M	163	GLN
1	M	200	GLN
1	M	221	GLN
1	M	226	HIS
1	M	262	GLN
1	M	294	ASN
1	M	355	ASN
1	M	357	HIS
1	M	385	ASN
1	M	394	ASN
1	M	414	ASN
1	M	424	ASN
1	M	467	ASN
1	M	485	GLN
1	M	573	GLN
1	M	581	ASN
1	M	583	ASN
1	M	597	ASN
1	M	604	ASN
1	M	614	HIS
1	M	653	HIS

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Mol	Chain	Res	Type
1	M	704	ASN
1	M	718	GLN
1	M	775	GLN
1	M	783	GLN
1	M	791	ASN
1	M	815	HIS
1	M	843	GLN
1	M	949	HIS
1	M	950	GLN
1	M	977	HIS
1	M	985	ASN
1	M	990	HIS
1	N	50	GLN
1	N	93	HIS
1	N	102	ASN
1	N	147	ASN
1	N	216	HIS
1	N	262	GLN
1	N	266	GLN
1	N	355	ASN
1	N	357	HIS
1	N	363	HIS
1	N	394	ASN
1	N	414	ASN
1	N	424	ASN
1	N	445	GLN
1	N	604	ASN
1	N	614	HIS
1	N	624	GLN
1	N	628	GLN
1	N	634	GLN
1	N	704	ASN
1	N	775	GLN
1	N	824	GLN
1	N	949	HIS
1	N	950	GLN
1	O	50	GLN
1	O	93	HIS
1	O	102	ASN
1	O	128	ASN
1	O	135	GLN
1	O	147	ASN

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Mol	Chain	Res	Type
1	O	216	HIS
1	O	262	GLN
1	O	307	ASN
1	O	357	HIS
1	O	359	HIS
1	O	414	ASN
1	O	573	GLN
1	O	597	ASN
1	O	604	ASN
1	O	614	HIS
1	O	675	GLN
1	O	713	HIS
1	O	761	GLN
1	O	843	GLN
1	O	844	HIS
1	O	949	HIS
1	O	990	HIS
1	P	38	ASN
1	P	50	GLN
1	P	89	ASN
1	P	93	HIS
1	P	102	ASN
1	P	128	ASN
1	P	226	HIS
1	P	262	GLN
1	P	266	GLN
1	P	297	ASN
1	P	316	HIS
1	P	355	ASN
1	P	357	HIS
1	P	359	HIS
1	P	363	HIS
1	P	383	ASN
1	P	385	ASN
1	P	394	ASN
1	P	510	GLN
1	P	597	ASN
1	P	604	ASN
1	P	622	HIS
1	P	624	GLN
1	P	646	HIS
1	P	775	GLN

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Mol	Chain	Res	Type
1	P	783	GLN
1	P	791	ASN
1	P	804	ASN
1	P	840	HIS
1	P	843	GLN
1	P	885	ASN
1	P	949	HIS
1	P	958	ASN
1	P	985	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 31 ligands modelled in this entry, 31 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	1021/1023 (99%)	-1.05	0 100 100	2, 24, 54, 79	0
1	B	1021/1023 (99%)	-1.04	0 100 100	2, 23, 54, 81	0
1	C	1021/1023 (99%)	-1.11	0 100 100	4, 21, 52, 80	0
1	D	1021/1023 (99%)	-1.03	0 100 100	4, 25, 56, 81	0
1	E	1021/1023 (99%)	-0.72	0 100 100	8, 34, 61, 86	0
1	F	1021/1023 (99%)	-1.02	1 (0%) 92 90	2, 23, 55, 78	0
1	G	1021/1023 (99%)	-0.93	0 100 100	3, 27, 58, 82	0
1	H	1021/1023 (99%)	-0.75	2 (0%) 91 89	6, 33, 61, 89	0
1	I	1021/1023 (99%)	-0.90	1 (0%) 92 90	4, 30, 59, 80	0
1	J	1021/1023 (99%)	-0.98	1 (0%) 92 90	8, 28, 56, 85	0
1	K	1021/1023 (99%)	-0.80	1 (0%) 92 90	10, 35, 64, 92	0
1	L	1021/1023 (99%)	-0.76	0 100 100	6, 35, 63, 84	0
1	M	1021/1023 (99%)	-0.53	1 (0%) 92 90	12, 39, 65, 80	0
1	N	1021/1023 (99%)	-0.88	0 100 100	9, 30, 59, 89	0
1	O	1021/1023 (99%)	-0.91	0 100 100	11, 31, 60, 81	0
1	P	1021/1023 (99%)	-0.35	3 (0%) 90 87	14, 43, 69, 89	0
All	All	16336/16368 (99%)	-0.86	10 (0%) 92 90	2, 30, 60, 92	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	P	180	GLY	3.1
1	P	81	ALA	2.6
1	M	180	GLY	2.5
1	F	582	GLY	2.4
1	I	581	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
1	H	731	PRO	2.2
1	H	735	HIS	2.2
1	K	731	PRO	2.2
1	P	683	PRO	2.1
1	J	80	GLU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	MG	E	1102	1/1	0.86	0.05	32,32,32,32	0
2	MG	J	1101	1/1	0.86	0.04	34,34,34,34	0
2	MG	K	1102	1/1	0.89	0.03	25,25,25,25	0
2	MG	P	1101	1/1	0.90	0.05	49,49,49,49	0
2	MG	B	1102	1/1	0.91	0.09	23,23,23,23	0
2	MG	M	1101	1/1	0.91	0.04	56,56,56,56	0
2	MG	J	1102	1/1	0.91	0.07	29,29,29,29	0
2	MG	F	1101	1/1	0.92	0.06	35,35,35,35	0
2	MG	I	1101	1/1	0.94	0.05	33,33,33,33	0
2	MG	L	1101	1/1	0.95	0.07	31,31,31,31	0
2	MG	A	1102	1/1	0.95	0.07	37,37,37,37	0
2	MG	H	1101	1/1	0.95	0.05	27,27,27,27	0
2	MG	L	1102	1/1	0.96	0.06	28,28,28,28	0
2	MG	H	1102	1/1	0.96	0.09	22,22,22,22	0
2	MG	N	1101	1/1	0.96	0.05	32,32,32,32	0
2	MG	C	1102	1/1	0.96	0.04	28,28,28,28	0
2	MG	E	1101	1/1	0.97	0.04	39,39,39,39	0
2	MG	K	1101	1/1	0.97	0.04	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	MG	I	1102	1/1	0.97	0.03	33,33,33,33	0
2	MG	G	1102	1/1	0.97	0.06	18,18,18,18	0
2	MG	F	1102	1/1	0.98	0.06	26,26,26,26	0
2	MG	G	1101	1/1	0.98	0.07	32,32,32,32	0
2	MG	A	1101	1/1	0.98	0.06	37,37,37,37	0
2	MG	O	1101	1/1	0.98	0.09	40,40,40,40	0
2	MG	O	1102	1/1	0.98	0.05	15,15,15,15	0
2	MG	C	1101	1/1	0.98	0.04	23,23,23,23	0
2	MG	P	1102	1/1	0.98	0.07	26,26,26,26	0
2	MG	B	1101	1/1	0.99	0.05	25,25,25,25	0
2	MG	D	1101	1/1	0.99	0.04	28,28,28,28	0
2	MG	D	1102	1/1	0.99	0.11	42,42,42,42	0
2	MG	N	1102	1/1	0.99	0.06	26,26,26,26	0

6.5 Other polymers (i)

There are no such residues in this entry.